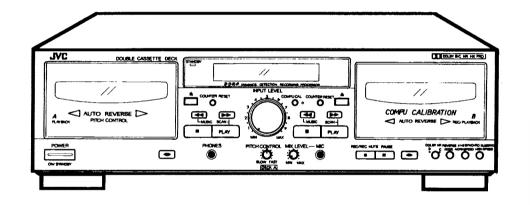


# JVC

## SERVICE MANUAL

### D(O)UELEE(O)A(SSEEEED)E(O)K

# TD-W317TN C/J TD-W318BK A/B/E/EN/G/U/UT



### COMPU LINK Component

Area Suffix				
A ······ Australia				
BU.K.				
C ····· Canada				
E ·····Continental europe				
EN North Europe				
G ····· Germany				
J U.S.A.				
U ·····Other Areas				
UT ····· Taiwan				

### **Contents**

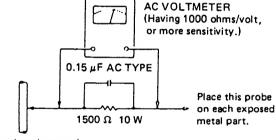
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### Safety Precautios

- 1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- 2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the product have special safety related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by shading and( \(\Delta\) ) on the schematic diagram and by ( \(\Delta\)) on the parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
- 5. Leakage current check (Electrical shock hazard testing)
  - After re assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.
  - Plug the AC line cord directly into the AC outlet. using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground.

    Any leakage current must not exposeed 0.5mA AC (r.m.s.)
  - · Alternate check method
  - Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15  $\mu$  F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each Good earth ground



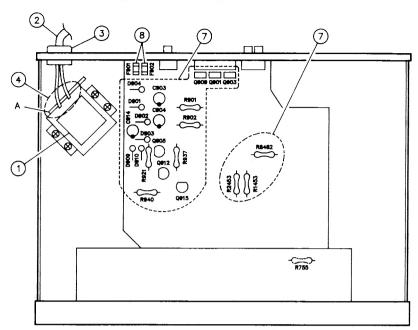
exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC(r.m.s.). This corresponds to 0.5mA AC(r.m.s.).

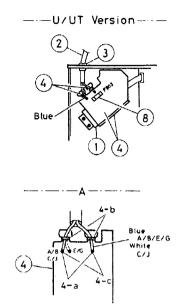
### Warning

- 1. This equipment has been designed and manufactured to meet international safety standards.
- 2. It is the legal responsibility of the repairer to ensure that these safety standards are maintaintained.
- 3. Repairs must be made in accordance with the relevant safety standards.
- 4. It is essential that safety critical components are replaced by approved parts.
- 5. If mains voltage selector is provided, check setting for local voltage.

### ♦ Important Management Points Regading Safety

(Items Demanding Special Safety Precautions)





1.Securely fix the power transformer while confirming its marking specified in the following.

Suffix	Marking	Description	Model
J	5216507	UL approved No.	TD-W317
С	VTP52A5-011F		TD-W317
A/B/E/EN/G	VTP52Z5-011F		TD-W318
U/UT	VTP54G5-001F		TD-W318

2.Power cord: Make sure of the following markings and inspect exterior scratch anddamage.

	Power cord	Attachment plug		
J	SPT-1	KP-10W or SU-1P		
С	SPT-1	KP-10W or SU-1P		
E/EN/G	∇ V D E ▷	KP-419C or SE-1		
В	BASEC BS6500	KP-610 3A		
U/UT	⊲VDE⊳	KP-8H		
A	LTSA-2F	KP-560		

- Install the cord bushing by the specified tool whileconfirming the marking. Bushing: NIFCO 2271
- 4. Wiring terminal
  - a)When installing the power cord,wind it around the terminal by the end before soldering.
  - b)Arrange the wires while binding them nearby the terminal.
  - c)The end of respective power cords is solderedin the air and the space from others must be3.2 mm or more in the distance.

- Since the following parts are hear generation ones, they must no contact with electolytic capacitors, wires, etc.
- Parts in parentheses ( ) are inflammables.Make sure of their lift – up condition for the purpose.
- Parts in box are out of JVC's control.
   D901 D902 D903 D904 D909 D910 Q901 Q903 Q905
   Q909 Q912 Q915 R901 R902 R921 R1453 R2453 R8482
   R940 R755 C914

#### Other parts

C903 C904 2200uF/25V C/J virsion (VENT TYPE)

8. All fuses must securely be connected.In A/B/E/EN/G/U/UT version, F901 and F902 must be specified by the rating of 800 mA shown on the surface as well as by themarking of ⑤ or in U/UT version, F903 must be specified by the rating of 315 mA shown on the surface well as by the marking ⑥ or ❤).

#### Features

- 1. Double auto-reverse mechanism for recording/playback in deck B and playback in deck A
- COMPU CAL function which automatically sets the flat characteristics and brings out maximum tape performance.
- 3. Full logic mechanism
- 4. Dolby\* HX PRO headroom extension
- 5. Dolby B & C noise reduction system
- 6. DDRP (Dynamics Detection Recording Processor) compati-

The DDRP function is possible only when used with a suitable JVC CD player.

- 7. 2-color FL peak level indicator
- 8. Digital tape counter respectively for deck A and deck B
- 9. Synchro start (normal-/high-speed) dubbing
- 10. Auto tape select mechanism (decks A and B)
- 11. Multi music scan mechanism for either direction "Under License of Staar S.A., Brussels, Belgium"
- 12. PITCH control
- 13. Microphone mixing is possible
- 14. COMPU LINK-3 compatible

- \* Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.
- "Dolby", the double-D symbol □□ and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

### COMPU LINK Control System

COMPU LINK control system is the convenient system using COMPU LINK-3/SYNCHRO terminals on the rear panel. (See page 4 and 10.)

> $D \cdot D \cdot R \cdot P$ DYNAMICS DETECTION RECORDING PROCESSOR

This product can be combinated with a DDRP (DYNAMICS DETECTION RECORDING PROCESSOR) system (compact disc player + cassette deck, etc.) to enable setting the optimum recording level automatically. Refer to these instructions for details.

### **Specifications**

Type : Double cassette deck Track system : 4-track, 2-channel

: 4.8 cm/sec (1-7/8 inch/sec) (Normal) Tape speed 9.5 cm/sec (3-3/4 inch/sec) (High)

Frequency

response : (-20 dB recording)

Type IV tape; 20 - 17,000 Hz 30 - 16,00 Hz (±3dB)

Type II tape ; 20 - 16,000 Hz

30 - 15,000 Hz (±3dB)

Type I tape ; 20 - 16,000 Hz

30 - 15,000 Hz (±3dB)

S/N ratio : 58 dB (S = 315 Hz, k3 = 3%, N =

A-weighted, Type IV tape)

The S/N is improved by about 15 dB at 500 Hz and by max. 20 dB at 1 kHz  $\sim$ 10 kHz with Dolby C NR on and improved by 5 dB at 1 kHz and by 10 dB at above

5 kHz with DOLBY B NR on.

Improvement

of MOL : 4 dB at 10 kHz with Dolby C NR on. Wow and flutter :0.08% (WRMS), ±0.2% (DIN/IEC)

Channel

separation : 40 dB (1 kHz) Crosstalk : 60 dB (1 kHz)

Harmonic

distortion : k3; 0.8% (Type IV tape, 315 Hz, 0 VU) Heads : Deck A; METAPERM head for playback x 1

Deck B; METAPERM head for recording/

playback, 2-gap ferrite head for erasure; combination head x 1

Motors : Electric governed DC motor for capstan x 1

DC motor for reel x 1

DC motor for mechanism drive x 1

(For both decks A and B)

Fast forward/

rewind time : Approx. 110 sec. with C-60 cassette

Input terminals LINE IN

(x1 circuit)

: Input sensitivity; 80 mV (0 VU)

Input impedance; 50 kΩ

MIC x 1 (Monaural)

: Input sensitivity; 0.4m V (-68dBV) Matching impedance;  $600 \sim 10 \text{ k}\Omega$ 

**Output terminals** 

LINE OUT

(x 1 circuit) : Output level; 300 mV (0 VU)

Output impedance; 5 k $\Omega$ 

PHONES x 1 : Output level; 0.3 mW/8 \Omega (0 VU)

> Matching impedance 8  $\Omega$  - 1 k $\Omega$ : COMPU LINK-3/SYNCHRO x 2

Other terminals Power

requirement : AC 240 V, 50 Hz (Australia)

AC 230 V, 50 Hz (U.K.) AC 120 V, 60 Hz (U.S.A.)

Power

consumption : With power switch on 17 W With power switch standby 4.0 W

Dimensions

 $(W \times H \times D)$ : 435 x 134 x 331 mm

(17-3/16" x 5-5/16" x 13-1/16")

Weight : 4.9 kg (10.9 lbs.)

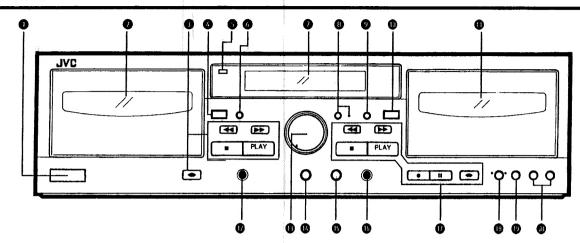
Accessories : Pin plug cord ...... 2

Remote cable ...... 1

Design and specifications are subject to change without notice.

### ■ Instructions (Extraction)

#### NAMES OF PARTS AND THEIR FUNCTIONS



- POWER switch (ON/STANDBY)
- Cassette holder (deck A)
- Cassette operation buttons (deck A)

: Press to wind the tape quickly from right

: Press to wind the tape quickly from left to

**PLAY** : Press to play the tape. : Press to stop the tape. (stop)

◆ (direction) : Press to change the direction of tape

- ♠ (eject) button (deck A)
- **6** Power STANDBY indicator

Lights when in the power standby mode.

#### **©** COUNTER RESET button (deck A)

Press this button to set the digital counter to "0000". Even if the POWER switch is set to STANDBY, the counter value at that time is stored in memory.

#### Indicators

- ① DDRP indicator
- Peak level indicator

These indicators light according to the level of the signal being recorded or the level of the signal recorded on the tape.

#### Note:

0 dB : IEC (DIN) STANDARD LEVEL (250 nWb/m)

0 VU : Signal level at 160 nWb/m : DOLBY NR STANDARD LEVEL 

- HX PRO Indicator
- 4 Digital counter

The counter reading increases while the tape is running forward and decreases when it is running in reverse. In the Multi Music Scan mode when the ◄ (or ▶ ) button is pressed, the number of tunes which will be skipped is displayed.

Mechanism mode indicators (deck A)

: This lights when rewinding the tape

from left to right.

: This lights when rewinding the tape

from right to left.

PLAY : This lights when in the playback.

: Indicates the direction of tape travel.

6 DUBBING >> : ">" lights when in the normal-speed dubbing mode.

> ">>" lights when in the high-speed dubbing mode.

① CONT : Lights when the unit is in the continuous

play mode.

(8) Mechanism mode indicators (deck B)

**PLAY** : Lights when the unit is in the playback

and record modes.

: Indicates the direction of tape travel.

REC : Lights when the unit is in the record and record-pause modes; blinks dur-

ing record muting.

: Pause Indicator

: This lights when rewinding the tape

from left to right.

: This lights when rewinding the tape

from right to left.

: Indicates reverse mode. ⑨ <</p>

#### COMPU CAL button and Indicator

Press this button to automatically set the recording characteristics with the COMPU CAL function. (See page 8.)

- O COUNTER RESET button (deck B)
- (B) Cassette holder (deck B)
- **PHONES** lack

Connects headphones (with an impedance of 8  $\Omega$  to 1 k $\Omega$ ).

- 1 INPUT LEVEL control
- PITCH control (deck A)

Varies the tape speed in deck A in the range of about  $\pm 10\%$ . However, it cannot change the tape speed in the high-speed

Turning it counterclockwise toward "SLOW" causes the tape speed to decrease while turning clockwise toward "FAST" causes it to increase. The center click position is for the standard speed. (See page 7.)

Mixing microphone level control

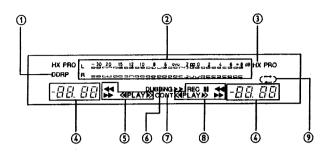
Adjusts the microphone input level.

MIX MIC lack

Connects a microphone (with an impedance of 600  $\Omega$  to 10 kΩ) to this lack.

Sounds from the microphone are monaural.

#### 0



#### ① Cassette operation buttons (deck B)

: Press to wind the tape quickly from right

to left.

: Press to wind the tape quickly from left to

right.

(stop) : Press to stop the tape. Also press to stop

both decks simultaneously during dub-

bing.

PLAY : Press to start playback/recording.

• REC/REC MUTE: Press the PLAY button while pressing this

button to start recording, and press to leave an appropriate non-recorded sec-

tion. (See page 9.)

■ PAUSE : Press to stop the tape temporarily during

recording and playback. Press the PLAY

button to release the pause mode.

◄ (direction) : Press to change the direction of tape

travel.

#### DOLBY NR button and indicators

Set to B or C for recording using the Dolby NR system or for playing back a tape that was recorded using the Dolby NR system. Each time the button is pressed the NR mode changes and the indicator lights. (Dolby B NR -> Dolby C NR -> NR OFF -> Dolby B NR ...)

Set to OFF when the Dolby NR system is not used.

#### **®** REVERSE MODE switch

Select the single side or full record/playback mode, or the continuous play mode. Each time the button is pressed the mode changes. (\*\*\_-> \*\*\_-> \*\*\_-...) The current mode can be checked with the mechanism mode indicator.

: For single-side recording or playback.
: To play or record both sides A and B.
: To play sides A and B continuously.

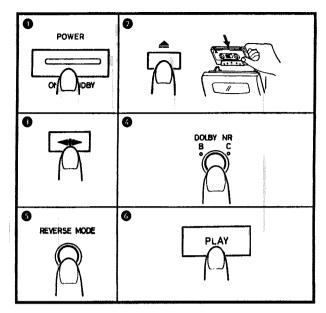
#### 

Press to dub from deck A to deck B.

NORM SPEED: Press to perform normal-speed dubbing.

HIGH SPEED : Press to perform high-speed dubbing.

#### **PLAYBACK**



#### Playback of deck A

Operate in the order of the numbers in the illustration.

- Press the POWER switch to set to ON.
- Load a prerecorded cassette with side A facing out.
- Select the side to be played back. Side A... Forward direction (PLAY ▶) Side B... Reverse direction (◄PLAY)
- Set the DOLBY NR switch to the same setting as when the tape was recorded.
- 6 Select the REVERSE MODE.
- Press the PLAY button of deck A to start playback.
- When the deck contains a tape, the deck is turned on automatically and the tape is played back by only pressing the PLAY button.

#### Playback of deck B

Perform steps 2 to 6 of the above procedure for deck B.

#### Microphone mixing during playback

By connecting a microphone, microphone mixing with playback sound from deck A or deck B is possible.

#### Continuous play

First set the REVERSE MODE switch to (2).

Load cassette tapes in both decks and press the PLAY button of the deck to be played first for continuous play of both decks.

- At this time, the CONT indicator lights in the multimode display. When the tape in the deck which plays first reaches the end of side B (in the reverse direction), it automatically switches to the forward direction and enters the standby mode. At the same time, the other deck starts playback. These operations continue between decks A and B.
- While one deck is playing back, the cassette in the other one can be replaced. This is convenient for long-time playback of background music.

#### Note:

 Use tapes recorded using the same NR mode in decks A and B.

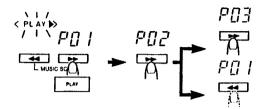
#### PITCH control (deck A)

It is possible to vary the tape speed in deck A in the range of about  $\pm 10\%$  in the playback mode. The center click position is for the standard tape speed.

#### **MULTI MUSIC SCAN**

- The multi music scan mechanism of this unit allows you to quickly locate the beginning of a specific tune (up to 99 tunes before or after the current tune).
- The multi music scan mechanism functions by detecting nonrecorded sections between tunes (of more than 4-5 sec.).
- The illustration shows the forward direction.

Example of fast forward scan.



#### **Procedure**

- 1. Press the button during playback.
- When more than 2 tunes are to be skipped, after procedure 1 press the ►► (or ◄◄) button the number of times you want to skip tunes. The number of tunes to be skipped is displayed in the counter.
- Relation between Multi Music Scan and REVERSE MODE.
  - : The multi music scan mechanism operates on one side of the tape only. If the number set is too high (more than there are tunes remaining on that side), the tape stops when the end of the tape is reached.
  - : It operates continuously through one cycle of the A and B sides of the tape. If the number set has not been reached, the tape stops at the end of the B side. When the head rotates to play side A from B or B from A, this rotation is counted as one non-recorded section. When a recorded tune continues from side A to B, this tune is recorded as two tunes. In such a case, press the << (or >>> ) button one extra time.

#### Notes:

In the following cases, the mechanism may not operate correctly. This is not a malfunction; use the mechanism according to the type of program.

- Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portions during tunes.
- Tapes with short non-recorded sections.

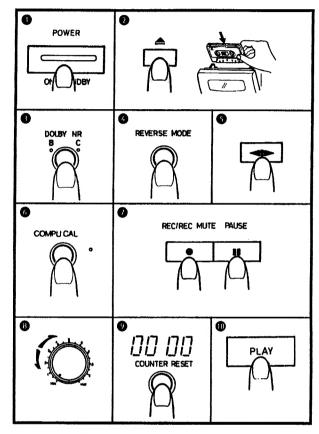
#### RECORDING

#### Deck B only

Operate in the order of the numbers in the illustration.

Make sure the safety tab of the cassette has not been broken
off

It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.



- Press the POWER switch to set to ON.
- Load a cassette for recording.
- Set the DOLBY NR switch as required.
- Set the REVERSE MODE switch as desired.
- Select the side to be recorded.
- Press the COMPU CAL button, if required. (See page 8.)
- Press the PAUSE button and REC/REC MUTE button (record-pause mode).
  - REC and 11 indicators light.
- Adjust the recording level. (See page 9.)
- Press to "0000".
- Press the PLAY button to start recording.

#### Notes:

- When the safety tabs are removed from a cassette tape, the tape cannot be recorded even if you try. Make sure that both tabs are still in place when performing full recording.
- When the tape is played or recorded in the reverse direction (side B), only side B is played back or recorded and then the tape stops automatically.

#### DDRP (Dynamics Detection Recording Processor) recording

DDRP recording is performed with suitable JVC CD players and the recording level adjustment is performed automatically. Since recording level adjustment is performed automatically for different types of tape (normal, CrO<sub>2</sub> and metal), the adjustment of INPUT LEVEL control is not required.

Read the instruction book of your CD player carefully.

#### **COMPU CALIBRATION (COMPU CAL) FUNCTION**

- This unit is equipped with a COMPU CAL function which can automatically set the flat frequency characteristics and optimal tape sensitivity for each tape in approximately 30 seconds. Calibration data is retained for each tape type (Type I, II or IV)
- Calibration data set with COMPU CAL is retained even if the power is turned off (or the power cord is unplugged), and the previous calibration data for the same type of tape as the new tape is recalled each time tapes are changed.
- Performing COMPU CAL operations again replaces existing data with the new data.

#### **COMPU CAL operation**

- Insert the tape to be recorded and press the COMPU CAL button. During the operation, "C" -> "CA" -> "CAL" is displayed in the tape counter. When the operation finishes, the tape returns to its starting position, and the COMPU CAL indicator lights. COMPU CALIBRATION is now finished.
- Pressing the (stop) button part-way will interrupt the operations.
- To recalibrate the unit, press the COMPU CAL button and wait for the COMPU CAL indicator to go out. Then, press the COMPU CAL button again.

#### Note:

If the tape is near its end, it will automatically stop and an error will be generated during operation. Therefore, be sure to check the time remaining on the tape (more than 2 minutes in the play mode) before starting the operations.

#### **COMPU CAL Errors**

- When the COMPU CAL indicator flashes, this indicates a COMPU CAL error.
- Press the m (stop) button to stop the error indication.

Care should be taken for the following items as they are the cause of errors.

- 1) Dirty heads -Clean the heads.
- 2) Scratches on the tape surface
  - -Replace with an undamaged tape.
- 3) When the tape ends part-way through the operations
  - -Change the tape position.
- In rare cases, tapes may have characteristics which fall outside the COMPU CAL setting range.
- When an error occurs or when COMPU CAL operations are interrupted, calibration data cannot be stored in the memory. If settings were previously performed, the previous setting values are retained.
- After confirming items 1) to 3) above and stopping the error indication if there are no problems, even tapes which experience errors can be recorded on using either ① the unit's preset values or ② previous setting values. (These are the values obtained by opening and closing the cassette holder one time.)
  - \* Preset value: a standard value corresponding to each type of tape, which allows normal recording. (The preset value condition is in effect when the COMPU CAL indicator is unlit.)

#### Notes:

- Since COMPU CAL operations record a test tone on tapes, previously recorded contents will be erased.
- Using new tapes and cleaning the heads beforehand are recommended for optimal COMPU CAL operations.
- Some variance in characteristics exists even with the same type of tape made by the same manufacturer. Therefore, when precise settings are desired, performing COMPU CAL operations for each recording is recommended.
- 4. To delete contents set with COMPU CAL, simultaneously press the ●REC/REC MUTE and B deck COUNTER RESET buttons. This deletes the calibration data for the type of tape currently inserted in the unit. Calibration data for other tape types is not deleted.

#### MICROPHONE MIXING DURING RECORDING

By connecting a microphone, microphone mixing during recording is possible by following the recording procedure. Adjust the microphone input level by setting the record-pause mode and observing the peak level indicators.

 When the record-pause mode is set and the INPUT LEVEL control is set to MIN, sounds are output only from the microphone, and it can be used as a public address system.

#### RECORDING LEVEL ADJUSTMENT

Adjust the recording level while observing the peak level indicator indication. For example: With metal tape

Because of metal tape's higher saturation level, it is OK that "+2" lights occasionally.

With normal or chrome tape

It is OK that "+ 0" lights occasionally.

- When the recording level is too low, the hiss noise inherent in the tape will be conspicuous.
- When the recording level is too high, exceeding the saturation level, the recording will contain cracking noise and will be distorted.
- If "+ 4" lights too often because the recording level is too high, the recorded sound may be distorted and seem to be breaking up. If only "0" lights infrequently, the level is too low and the recording may contain tape hiss.

It is best to adjust so that the maximum sound level of the source to be recorded reaches the very limit of the saturation level of the tape to be used.

The best level varies depending on the type of music and type of tape so it is better to make a test recording, using FM music, records, etc.

#### **AUTOMATIC RECORD MUTING (DECK B)**

This facility is used to eliminate undesired sections and leave an appropriate non-recorded section.

### A. To leave non-recorded sections of about 4-5 seconds automatically

- When the undesired section comes during recording, press the • REC/REC MUTE button and release it.
- The REC indicator flashes and a non-recorded section is made during record muting operation. About 4-5 seconds later, the tape automatically stops, and the unit enters the record-pause mode.
- 3. Press the PLAY button to start recording again.

#### B. To leave non-recorded sections of more than 4-5 seconds

- Keep the 

   REC/REC MUTE button pressed continuously as long as you want to make a non-recorded section. By releasing the finger from the button after the above operation, the unit enters the record-pause mode.
- 2. Press the PLAY button to start recording again.

#### C. To leave non-recorded section of less than 4-seconds

When the undesired section comes during recording....

After the REC/REC MUTE button is pressed, press the PLAY button before the unit enters the pause mode to start recording again, or press the PAUSE button to enter the record-pause mode.

 The peak level indicator lights even during record muting according to the input level which can be heard from the speakers or headphones so that recording can be resumed at the exact point on the tape.

#### **ERASING**

When recording on a prerecorded tape, the previous recording is automatically erased and only the new program is recorded on the tape.

To erase a tape without making a new recording...
Follow the section "RECORDING" but in step (3), set the INPUT LEVEL control to MIN.

### DOLBY NR and DOLBY HX PRO, Dolby NR System

To reduce the hiss inherent in tape recording, use the Dolby NR System when making recordings. When listening to a tape recorded with the Dolby NR System, set the DOLBY NR switch to B or C according to the system selected in the recording mode.

#### Note:

The sound quality will change if the positions of the DOLBY NR switch are different in recording and playback.

#### Dolby HX PRO headroom extension

When a source which contains many high-frequency components is recorded, these high-frequency signals have the same function as bias and therefore, the effective bias current changes.

This will result in phenomena such as changes in the level of low-frequency signal and subsequent distortion and reduction of the high-frequency saturation level.

Dolby HX PRO headroom extension system controls the bias current so that the effective bias is constant even when there are fluctuations in the high-frequency components of the input signal.

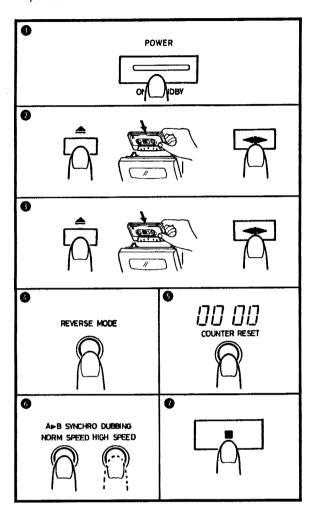
This greatly improves the high-frequency saturation level while reducing the low-frequency signal level variations and distortion

- The dynamic sound recorded with this system sounds the same even when the tape is played back in a deck that does not have Dolby HX PRO.
- This system automatically works when in recording; however, Dolby HX PRO is not a noise reduction system.

#### **DUBBING**

#### Synchro dubbing

Operate in the order of the numbers in the illustration.



- Press the POWER switch to set to ON.
- Insert a prerecorded tape with side A facing out into deck A, and press the ◄I► (direction) button to select the travel direction.
- Insert the blank tape with side A facing out into deck B, and press the ◄I► (direction) button to select the side to be recorded.
- Select the REVERSE MODE.
- Press to "0000". (Deck B)
- Press the SYNCHRO DUBBING (NORM or HIGH SPEED) button to start dubbing.
- Press the (stop) button of deck B to stop dubbing.

When deck B stops, the dubbing mode is automatically released.

#### Synchro record muting

When deck A stops or enters any mode other than the playback mode during dubbing, deck B enters the record mute operation automatically and then enters the record-pause mode.

Before pressing the SYNCHRO DUBBING button
 Confirm that deck B is in the stop mode before starting dubbing.

#### **Dubbing and DOLBY NR switch**

During dubbing, the same NR mode selected for the playback cassette is applied to the recording cassette, regardless of the position of the NR switch.

#### Input level

Recording is performed at the same level as the playback tape during dubbing regardless of the position of the INPUT LEVEL control

#### Microphone mixing during dubbing

By connecting a microphone, microphone mixing during dubbing is possible with the playback sounds from deck A. Be sure to perform dubbing at normal speed. When performing microphone mixing during dubbing, use cassettes recorded with NR OFF mode for the deck A.

#### Tape editing

- Press the REC/REC MUTE button when finished dubbing a tune. Deck B automatically enters the record muting mode and leaves a non-recorded section of about 4-seconds then enters the record-paused mode.
- Press the same SYNCHRO DUBBING button pressed before the pause again, and dubbing will start.

#### Notes at dubbing

- Normal-speed dubbing is recommended to obtain good sound quality.
- Television receivers placed close to the deck may cause interference on the recorded signal when the deck is used in the high-speed dubbing mode. If this happens, either turn off the television receiver or use the normal-speed dubbing mode.

#### **CONNECTIONS**

- Do not switch the power on until all the connections are completed.
- Insert the plugs firmly, or poor contact will result, causing noise.
- When the pin-plug cords are employed, always connect the white plug to the left channel terminal. This helps to avoid reversed connections.
- When using the Compu Link Control System version 3, do not connect the power cord to the SWITCHED AC OUTLET of an amplifier or receiver. Otherwise, the automatic power on/off (STANDBY) function cannot be carried out.

#### 1. Connection to a stereo amplifier

#### Note

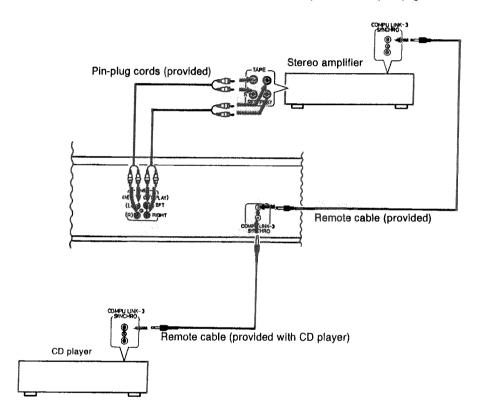
When installing the deck, be sure to install at a distance from your amplifier. If they are stacked, noise (hum) may occur.

#### 2. Remote cable connection for COMPU LINK

- By connecting a remote cable, COMPU LINK functions (automatic power on/off (STANDBY), automatic source selection, synchronized recording and DDRP recording) can be performed. In this time the provided pin-plug cords must be also connected.
- When making synchronized recording with a CD player, connect the remote cable to the COMPU LINK-1/SYNCHRO or COMPU LINK-3/SYNCHRO jacks.

#### Notes:

- When making synchronized recordings, only a single deck should be connected to the amplifier.
- If a component is not a JVC COMPU LINK component, bypass it when making the remote cable connections.
- This deck can be connected with an amplifier and a CD player which have the COMPU LINK-1/SYNCHRO jacks for COMPU LINK performance. (See page 10 for details.)



### **Location of Main Parts**

#### **■** Top view

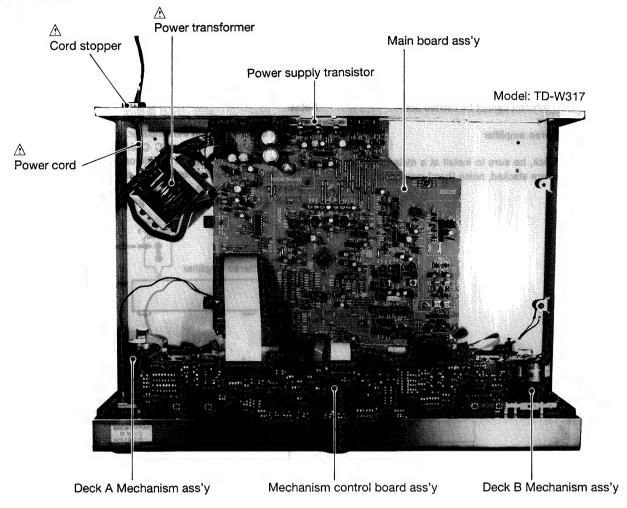
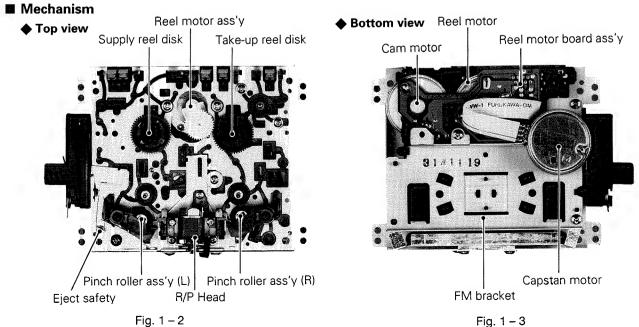


Fig. 1 – 1



### 2 Removal of main parts

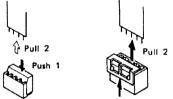
#### **■** Enciosure Section

#### **◆ Top cover** (Fig. 2 – 1)

- 1. Remove four screws ① retaining the top cover from both side.
- 2. Remove two screws (2) retaining the top cover from the
- 3. To remove the top cover ,slide in direction of allow and lift away (refer to Fig. 2 - 1).

#### ◆ Front panel assembly (Fig. 2 - 2)

- 1. Remove the top cover as described in above.
- 2. Remove three screws (3) retaining the front panel ass'y from bottom side.
- 3.Release the front panel ass'y from two pawls in the front and bottom sides and draw it to the front side.
- 4. Disconnect all connectors between the mechanism ass'y, front panel ass'y and the main board ass'y.



Push up with a screwdriver, etc. 1

#### Mechanism assembly

- \*Although the mechanism assembly can be removed without detaching the front panel ass'y, it is recommended to detach the front panel ass'y to do the work with ease.
- 1. Remove two screws (4) or two screws (5) from the corners of the mechanism. (Fig. 2 - 5)
- 2. Open the door and remove the mechanism ass'y. (At this time, door lock arm spring and door lock arm are removed together with.)
- 3. For moving the mechanism ass'y only, disconnect the following wirings.
- a) Mechanism ass'y side (Fig. 2 4) Top side connector of the cam switch board (CN2). Connector of the motor board (CN1). (Board to Board connector)
- b) Main board ass'y side (Fig. 2 3) Disconnects CN802 from Mecha control board, CN801 from Switch & Volume board ass'y, CN871 from Mic board ass'y and CN861 from H. Phone jack board ass'y. Disconnect wire coming from the head mount ass'y CN811 at deck A and CN815 at deck B.

Remove two screws (6) and remove the two GND wires from Mecha control board ass'y.

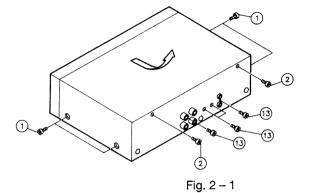


Fig. 2 – 2

MAIN BOARD **(6)** CN802 CN815 CN871 222 DECK Mecha control board DECK B

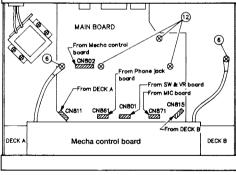


Fig. 2 - 3

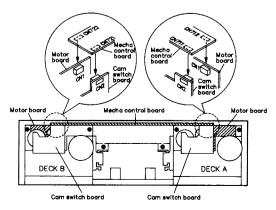


Fig. 2 - 4

#### ◆ Eject arm ass'y (Fig. 2 – 5)

 Remove two screws Tretaining the eject arm ass'y and pull it out.

#### ◆ Mechanism holder and door ass'y (Fig. 2 - 8)

- 1. Remove four screws ® retaining the mechanism holder.
- 2. Remove the damper ass'y(for easy reassembling work). Insert an originary( – )screwdriver or the like in to the gap between the damper and the front panel to disengage the pawl , and draw the damper ass'y outwards.(see Fig 2 – 6)
- Remove the arm shaft of the cassette holder (door ass'y)from the mechanism holder.(The door spring is engaged with the door side by the longer side.) (see Fig. 2 - 7)
- 4. Remove the eject spring from lock lever and mechanism ass'y. (see Fig. 2 7)

#### ◆ Switch & Volume board ass'y (Fig. 2 - 8)

- After removing the mechanism holder, proceed to the following steps.
- 2. Pull out the INPUT volume knob.
- 3. Remove five screws 

  retaining the Switch & Volume P.C. board.
- 4. Lift the board right upwards to remove it since it is connected to the mechanism control key board with connector pins (CN603/CN604).
- 5. Disconnect CN602 coming from Mecha control board ass'y (CN702).

#### ◆ Headphone jack board ass'y and Mic jack board ass'y (Fig. 2 – 8)

#### ◆ Key switch board ass'y (Fig. 2 - 8)

- 1. Remove one screw (10 (DeckA or B) retaining the board ass'y.
- 2. Do the same for the other side.

#### ♦ Main board ass'y (see Fig2 - 3,Fig 2 - 1)

- 1. Remove three screws (2) retaining the board.
- 2. Remove four screws (3) retaining the board to the rear panel.

#### ◆ Mechanism control board ass'y (Fig. 2 – 8)

1. Remove two screws (1) retaining the board.

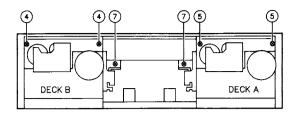
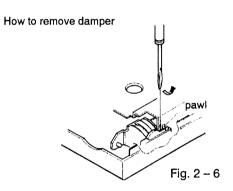
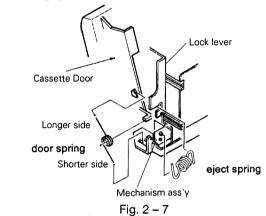
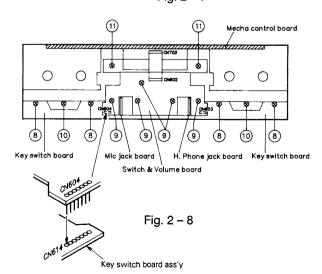


Fig. 2 - 5



How to engage the door and eject spring





- Reassembling procedure of the front panel ass'y
- 1. Attach the Key switch board ass'y to the panel with two screws.
- 2. Put the door ass'y and the mechanism holder together with on the front panel.
- 3. Attach the mechanism holder to the front panel ass'y with two screws.
- 4. Engage the door spring properly.
- 5. Install the damper. (Push the pawl side last to engage it.)
- 6. Attach the Mecha control board ass'y to the panel with two screws.
- 7. Install the eject arm ass'y.
- 8. Attach the Switch & Volume board ass'y to the panel with five screws.
- 9. Install the mechanism ass'y.
- HooK the eject spring between lock lever and mechanism ass'y.

#### **■** Cassette mechanism section

- ♦ Head mount assembly (Fig2-9,Fig2-10)
- 1. Remove three screws ① retaining the head mount ass'y.
- ◆ Pinch roller assembly (Fig. 2 9, Fig. 2 11)
- Remove the pinch roller and pinch roller spring by disengaging the pawl hooking it.
- For reengaging the pinch roller and pinch roller spring, refer to Fig. 2 – 11.

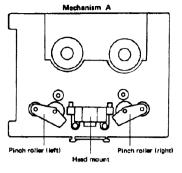


Fig. 2 - 9

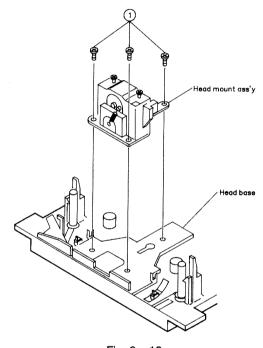


Fig. 2 – 10

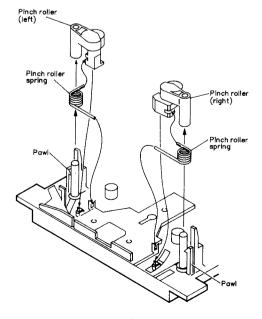


Fig. 2 - 11

### ◆ FM bracket/Capstan motor assembly (Mechanism A and B)

- Remove soldering of connector FM on Reel motor board.
   (Fig. 2 12)
- 2. Remove three screws ② and disengage two pawls, and then the FM bracket and the capstan belt can be removed. (Fig. 2-12, 2-13)
- 3. Remove two screws ③ retaining the capstan motor from the FM bracket. (Fig. 2 12)
- 4. For reengaging the capstan belt, refer to Fig. 2 13.

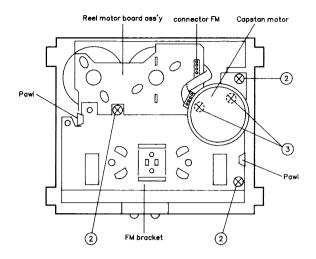


Fig. 2 - 12

#### ◆Flywheel ass'y (Fig. 2 – 14)

- 1. Remove two screws 4 and remove the shield plate.
- 2. Pull up the Flywheel (L) and (R) and remove them.

#### ◆ Reel motor board (Fig. 2 – 14)

1. Remove four soldering of the Reel motor and Actuator motor and remove the Reel motor board.

#### ◆ Reel motor board (Fig. 2 - 15)

 Remove two screws (5) from rear of chassis and remove the Reel motor ass'y toward upward.

#### ◆ Actuator motor ass'y (Fig. 2 – 15)

 Remove two screws (a) from rear of chassis and remove the Actuator motor ass'y toward upward.

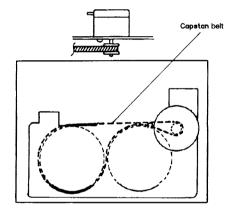
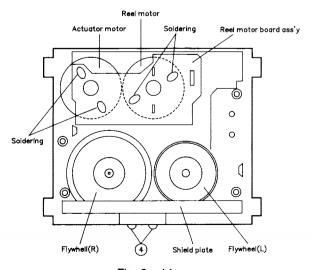


Fig. 2 - 13





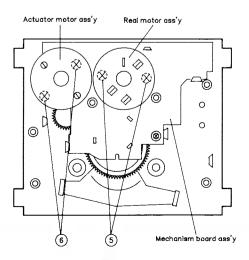


Fig. 2 - 15

#### ◆ Mechanism board ass'y (Fig. 2 – 16)

- 1. Remove one screw ⑦ retaining the board.
- 2. Release the Mechanism board from five pawls.
- 3. For gearing between the Mechanism board and Control cam, see the magnified illustration in a circle.

#### **♦ Control cam** (Fig. 2 – 17, 2 – 18)

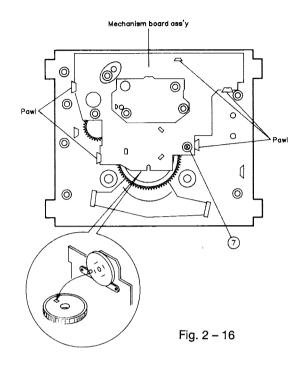
- 1. Release the control cam from two pawls. (Fig. 2 17)
- 2. For assembling the control cam, fits (a) zone (groove) of control cam to (a) position of Pinch lever and (b) zone (groove) to (b) position of Head base shaft. (Fig. 2 17, 2 18)

#### ◆Actuator gear A and B (small) (Fig. 2 – 17)

- Release the actuator gear A (small) from one pawl and remove it toward upward.
- 2. Release the actuator gear B (small) from one pawl and remove it toward upward.

#### ◆ Actuator gear (large) (Fig. 2 – 17)

 After removing the Control cam, actuator gear A (small) and actuator gear B (small), remove the Actuator gear (large).



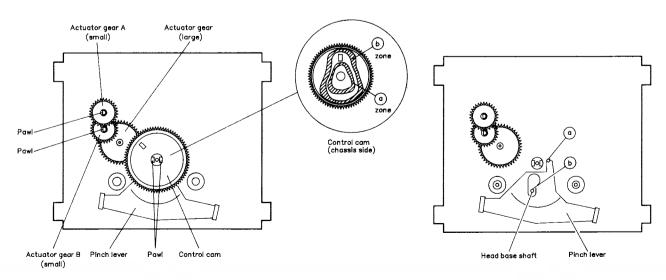


Fig. 2 - 17

Fig. 2 – 18

### 3 Main Adjustment

### Measuring instruments required for adjustment

- (1) Low frequency oscillator(oscillation frequency 50Hz 20kHz, 0dB output with 600  $\Omega$  impedance)
- (2) Attenutor(600 Ω impedance)
- (3) Electronic voltmeter
- (4) Standard tapes

VTT712 (tape speed, wow and flutter measurement)

VTT727 (400Hz reference level)

TMT735 (1 k, 12.5 k), VTT739 (63, 1 k, 10 k) (playback frequency)

frequency)

VTT703 or VTT703L (10 kHz), VTT704 (12.5 kHz)

(azimuth)

TMT6447, TM6448 (music scan)

(5) Recording reference tapes

AC-224 (Normal), AC-513 (TDK SA) (CrO<sub>2</sub>)

AC-712 (TDK MA) (Metal)

- (6) 600  $\Omega$  resistors(for attenuator matching)
- (7) Distortion meter(bandpass filter)
- (8) Torque gauge (cassette) for CTG-N, TW2111, TW2121, TS2231 and TW2241, mechanism adjustments

- (9) Wow & flutter gauge
- (10) Freequency counter gauge
- (11) M300 gauge
- (12) Band pass filter
- ◆ Power supply voltage

Set the line voltage selector switch to 240V/ 230V/

220V/ 127V/ 120V/ 110V according to \_\_\_\_\_

your local voltage.

AC240V, 50/60Hz :A/B version

AC230V, 50/60Hz :E/EN/G version

AC120V, 60Hz

:C/J version

AC230/127/110V, 50/60Hz:U/UT version

(13) Standard position of the switch and volume knob

Switches and volume knobs Setting position

INPUT LEVEL

MAXIMUM

DOLBY NR

OFF

REVERSE MODE

\_\_\_\_

PITCH CONTROL

CENTOR

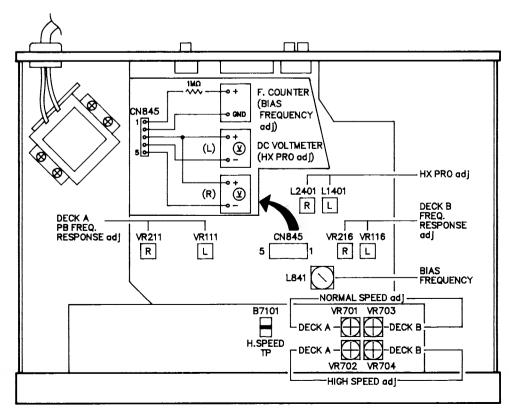
MIC MIXING LEVEL

**MAXIMUM** 

COMPU CAL LED

OFF

### **♦**Location of Adjustment



### ♦ Mechanism Adjstment

Item	Conditions	Adjustment and Confirmation	Standad value	Adjust point
Adjusting Head azimuth	Test tape :VTT704 (12.5kHz)	<ol> <li>Connect an electronic voltmeter to the LINE OUT terminals.</li> <li>Play back the VTT704 (12.5kHz) test tape.</li> <li>Adjust the head angle with the screw (FWD and REV) until the reading of the electronic voltmeter becomes maximum for both channels (phase difference must be "0".)</li> <li>Repeat the adjustment in FWD and REV modes as well as for the decks A and B.</li> </ol>	Deck B  FwD  Deck A  FwD	Screws (FWD, REV)  REV Adj
Adjusting motor speed	1.For high speed adjustment, set the deck for play mode and shortcircuit between B7101 and GND. 2.Do not do anything while B7101 and GND are shortcircuited.	1. Connect a frequency counter to the LINEOUT terminals.  2. Perform normal speed adjustment first, and then do high speed adjust- ment  3. Play back the VTT712 test tape.  4. Adjust for deck 日: Adjust VR701 for normal speed at 300Hz, and VR702 for high speed at 600Hz Adjust for deck 日: Adjust VR703 for normal speed at 3000Hz, and VR704 for high speed at 6000Hz.  5. Difference in FWD and REV frequencies must be less than 48Hz.	Normal speed: Deck	Deck
Checking wow and flutter		Connect a wow and flutter meter to LINE OUT terminals. Play back the VTT712 test tape. Check to see if the reading of the meter is within 0.17% (WRMS).	0.17% (WRMS)	
Checking play back torque		Employ a torque testing cassette tape (TW2111[FWD] / TW2121[REV] for the checking, or remove the cassette cover and use a torque gauge.	27 – 70 gr-cm	
Checking fast for – ward/rewind torque		Measure the torque in the fast forward mode in the same manner as in the above.  Test cassette: TW2231 (FWD),  TW2241 (REV)	90 – 200gr – cm	

### ♦ Electrical Adjustment Procedure

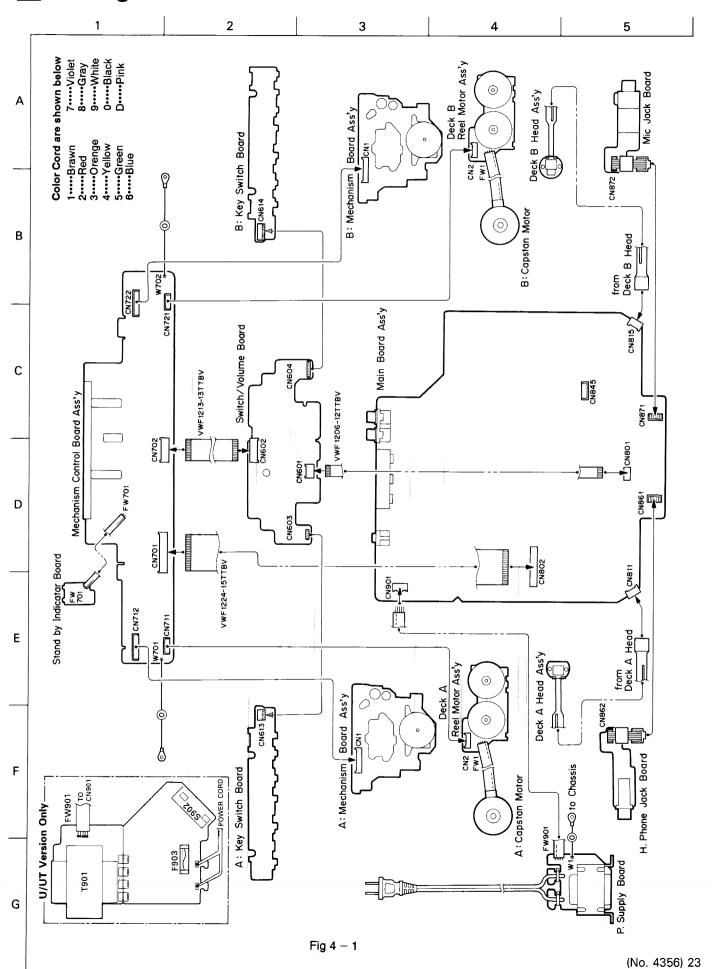
Item	Check and Adjustment				
1 Cheking DOLBY			Input signal (Frequency, level)	Output raise value,deviation value	
circuit			1kHz, cal. – 40dB	+5.7 dB ± 2 dB	
(Rec.mode)		BIAS-CUT) Output terminal TP : NR IC831 53 &8	DOLBY B	5kHz, Cal. – 20dB	+3.5dB ± 1.5 dB
(BIAS-CUT)			(Rec)	1kHz, Cal.	$^{0.5}_{ m 0.0}$ dB $\pm$ $^{1.0}_{ m 1.0}$ dB
			1kHz, Cal 40	$+16.2 \text{ dB} \pm \frac{3}{2} \text{ dB}$	
representation of the second	DOLBY C	5kHz, Cal 20	+2.9 dB ± 2.5 dB		
	(Rec)	1kHz, Cal.	0 dB ± 1 dB		

Item	Conditions	Adjustment and Confirmation	Standard	Adjusting	
*2 Play back level check	Test tape VTT727 : 400Hz	Play back VTT727. Check that the level at LINE OUT is -4.5 dBs ± 1dB.  Difference between Lch and Rch must be less than 1 dB at LINE OUT.	-4.5 dBs ± 1dB		
*3 Playback frequency response adjustment	Test tape TMT735:1kHz/12.5kHz VTT739: 1kHz/63Hz	Play back TMT735 test tape, and adjust VR116, VR216 (deck $\boxed{B}$ ) and VR111, VR211 (deck $\boxed{A}$ ) so that deviation of 12.5 kHz to that of 1 kHz is 0.5 $\pm$ 0.5 dB (deck $\boxed{A}$ ) and 0 $\pm$ 0.5 dB (deck $\boxed{B}$ ). Then, play back VTT739 test tape to confirm that deviation of 63 Hz to 1kHz is +2 $\pm$ 3 dB.	with 12.5kHz as reference, 0.5 ± 0.5 dB (deck A) and 0 ± 0.5 dB (deck B) at 1 kHz 63 Hz (check): +2 ± 3 dB	Deck 图 L: VR116 R: VR216 Deck 囚 L: VR111 R: VR211	
*4 Bias frequency adjustment	Frequency counter TP: CN845 pin 1	Connect frequency counter to the CN845 and adjust L8401 so that the counter reads 95 kHz.	95 kHz ± 1 kHz	Deck 🖪 L8401	
*5 Slave oscillation (HX PRO) adjustment	DC.Voltmeter TP: CN845	This step must be performed after the bias frequency adjustment.  Load a metal tape and set the deck to the recording mode.  Adjust L1401 and L2401 to minimize respective voltages of CN845 (PIN 3 – 4) at Lch and (PIN 3 –5) at Rch.	Minimum	Deck 图 L-ch: L1401 R-ch: L2401	
6 Input sensitivity level check	OTTO ANTHONO As a second	<ol> <li>Supply a 1kHz signal to the LINE IN terminals at -20dBs, confirm that LINE OUT level is -8dBs.</li> <li>Confirm that difference level between left and right within 2dB.</li> </ol>	LINE IN : -20dBs ± 2 dB		

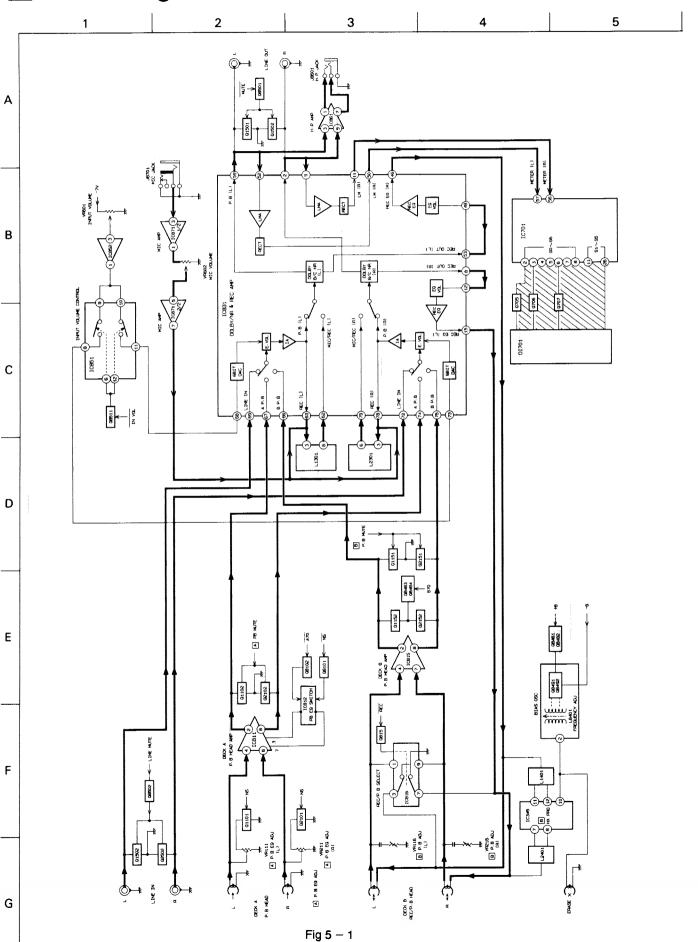
Item	Conditions	Adjustment and Confirmation	Standard	Adjusting
*7 REC/PB frequency response check	LINE INRUT level: Ref 20dB( - 39dBs ± 2dB) MIC INPUT level: Ref20dB (-88dBs ± 3dB) NR SWITCH: OFF	This step must be performed after the slave oscillation adjustment. Record the 1 kHz and 12.5 kHz sig- nals at the level of $-$ 20 dB (20 dB lower than the reference level). Playing back the recorded signals, check that the level of the 12.5 kHz signal is 0 $\pm$ 2 dB to the level of the 1 kHz signal.		
		Increase in high frequencies  Decrease in high Appropriate be high frequencies  O 50 Hz 1 kHz 12.5 kHz Frequencies	ias current	
8 Recording/ playback sensitivity check		1. Supply a 400Hz signal to the LINE IN terminals record a 400Hz signal at reference level of –20dB. 2. Confirm that REC indicator should turn on when LINE OUT level is –28dBs during recording.	Normal, Chrome, Metal: -28dBs ±1 dB	
9 Maximum out put check		Supply 1 kHz signel to the LINE IN terminal in the Rec. monitoring mode, and read non-clipped signal level at the LINE IN terminal	LINE OUT: more than 5 dBs PHONES OUT: more than – 16dBs	
10 Checking record/ playback distortion		<ol> <li>1)Record a 1 kHz, - 19 dBs signal to LINE IN terminals.</li> <li>2)Play back the recorded part, Check the output with a distortion meter to see if the value conforms to the standard value.</li> </ol>	Nornal: Less than 2% CrO2/Metal: Less than 3% Metal tape:	
11 Checking signal to noise ratio recording playback		<ol> <li>1)Record a 1 kHz, - 19 dBs signel, Stop the input bu disconnecting from the terminal to perform non-signal recording.</li> <li>2)Play back the recorded part.Measure the - 8 dBs recording output and the non-signal recording output for comparison using an electronic voltmeter. Check to see if the value conforms to the standard value.</li> </ol>	Normal, More than 40 dB Metal, chrome; More than 41 dB	

Item	Conditions	Adjustment and Confirmation	Standard	Adjusting
12 Checking erasing coefficient		1) Apply a 1 kHz, +20 dBs signal to the LINE IN terminals.  2) Perform recording with the signal enhaned by 20 dB  3) Erase a part of the recording.  4) Measure the output difference between the erased part and non- erased part to compare with an electronic voltmeter.  For the measurement using a metal tape, connect a band pass filter between the deck and the electronic voltmeter.  Input (1 kHz)  Band pass filter  Electronic voltmeter	More than 55 dB	

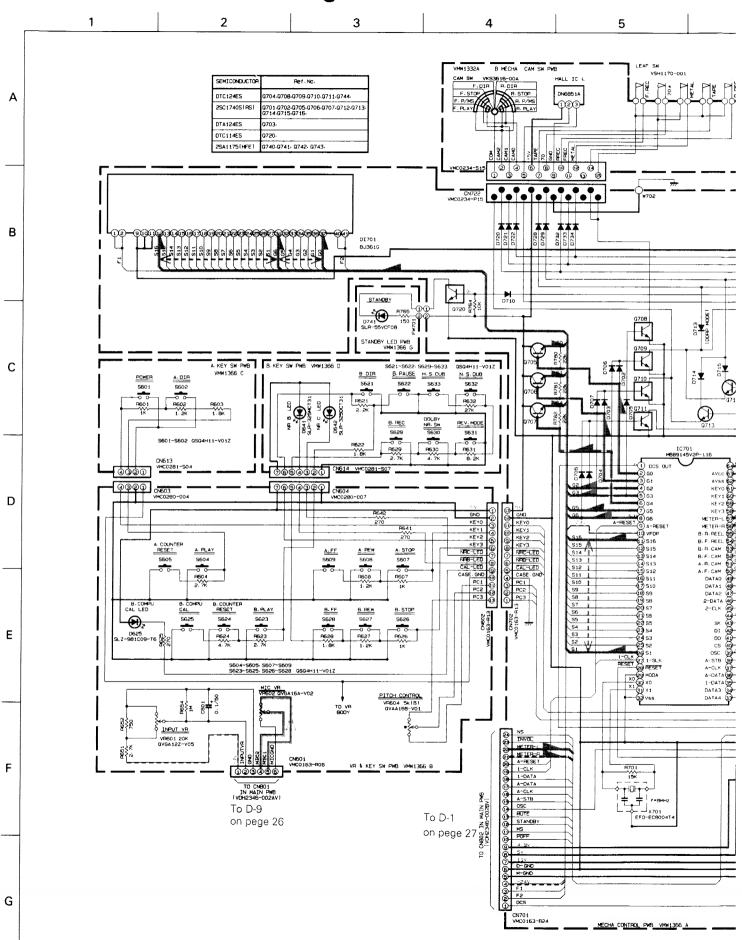
### **4** Wiring Connections

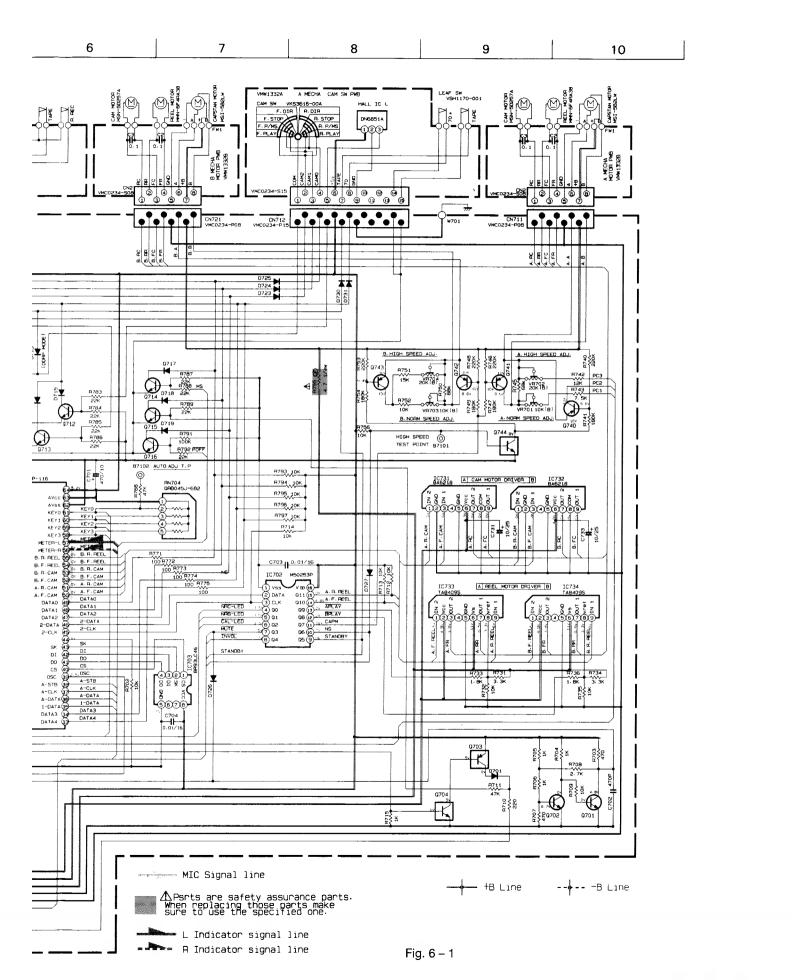


### **5** Block Diagram



### 6 Standard Schematic Diagrams





\*\*\* A:R Playback signal line

TD-V TD-V

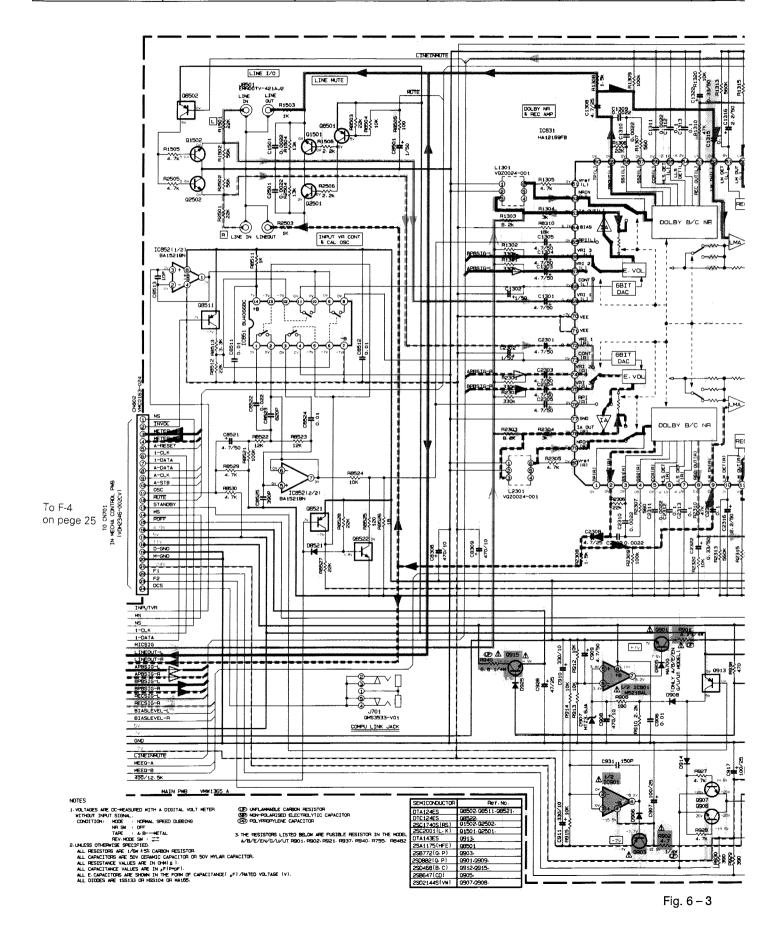
2 3 4 5 1 A P.B. HEAD AMP Α 08101 A P.B. HEAD ASS'Y VGH0424-034 В VR111/VR211 A. PB. EQ. ADJ. ICB15 1/2 AN6557F B P.B. HEAD AMP С B R/P & E. HEAD ASS' Y Ļ H RB151 D VR115/VR215 B. PB. EQ. ADJ. 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 47.75 Ε B HX PRO 1 2 3 4 5 B BIAS OB481 B BIAS OSC FREQUENCY ADJ 0848 7 R8492 B2K R2453 848. L8401 VQH1008~031 ₩ ₩ ₩ C 2451 B:L Playback signal line G \*\* B:R Playback signal line A:L Playback signal line

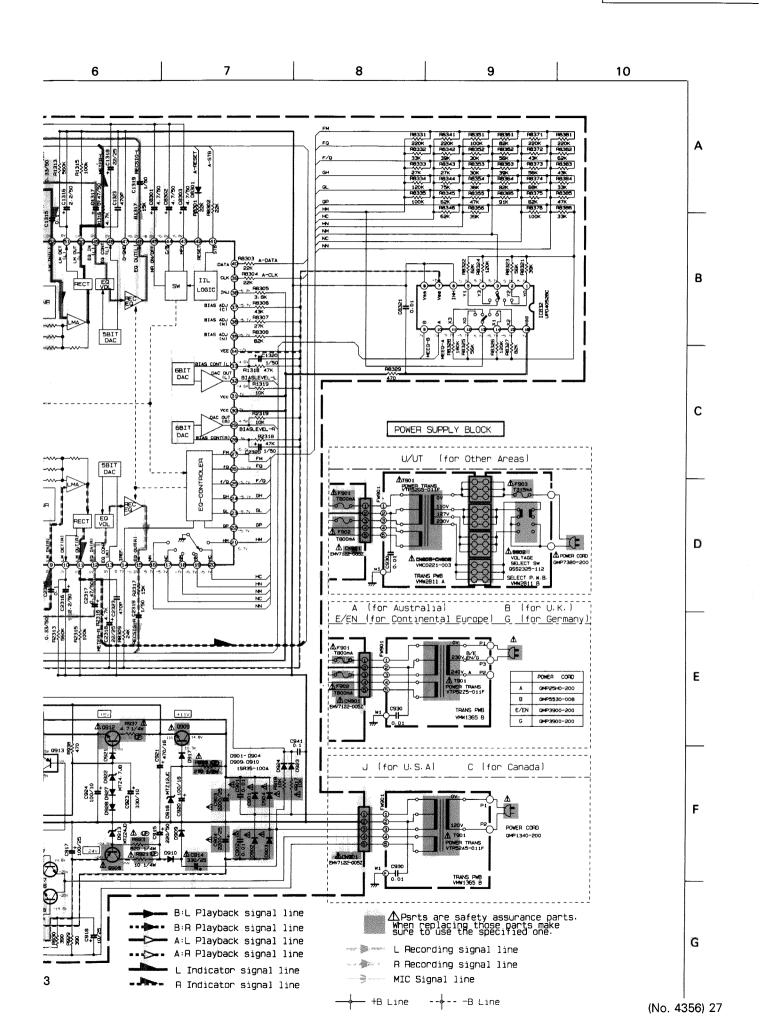
9 7 8 6 HEAD PHONES AMP H. P. JACK J8601 0MS6032-V01 SEMICONDUCTOR Ref. No VMW1366 E 01101-02101-01102-02102-01151 DTC124ES Q2151-Q8483-Q8601-Q6802-Q8481-Q8491-Q8492-2SC2001(L-K) 01152-02152 25K105(HJ) or 25K105(A) 25A1175(HFE) 08482 DTA124ES Q8101-Q8102-Q8151-Q8484-Q880 M. S. DETECT IC871 MIC AMP  $\mathbb{F}$ MIC JACK PWB VMW1966 100 100 100 100 100 150 150 TO CN601
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VDH2346-002CV) To F-2 on pege 25 265 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + 407 + G8484 BPBSIG-B. C8901 | 0.01 AMS LINEINMUTE BIAS LINEINMUTE R8902 10K R8903 10K R8904 10K 905 10H 9906 10K L Recording signal line – +B Line A Recording signal line -- -B Line MIC Signal line Fig. 6-2

⚠Psrts are safety assurance parts. When replacing those parts make sure to use the specified one.

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### **7** Location of P.C. Board Parts and Parts List

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■ Main Board

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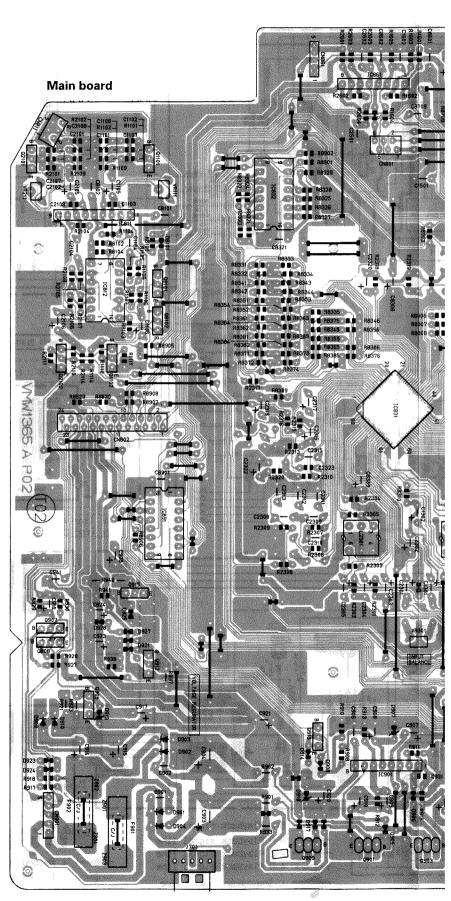
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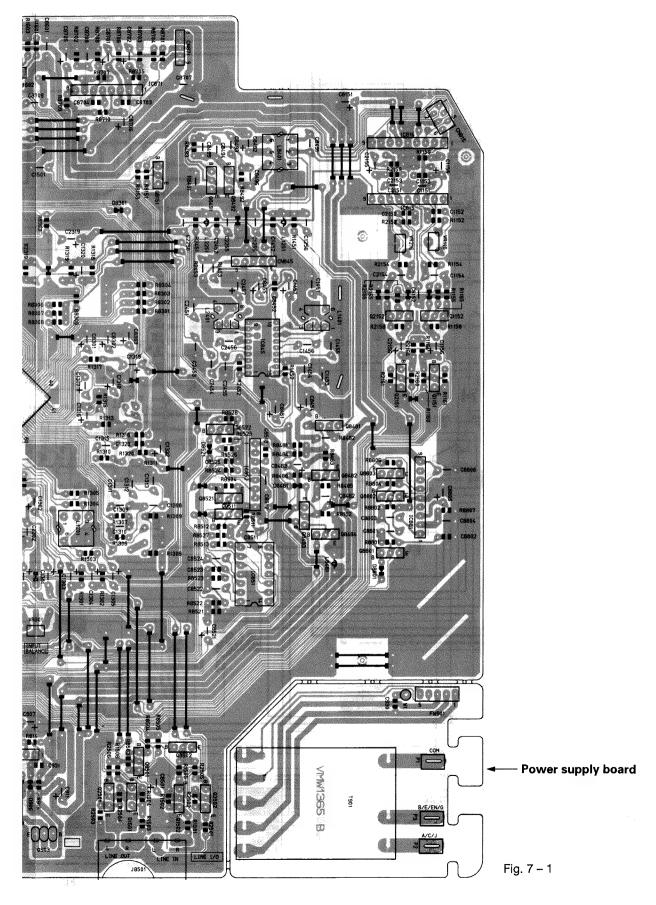
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	- 1	RI, O					BLOCK NO.	011
.0.	NAME	RMARKS	SUFFIX	A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
1HP-103 C.CAPACITOR	TOR	.010MF +100:-0%		C1310	QFN41HJ-222	M.CAPACITOR	2200PF 5% 50V	
N.	TOR	20% 25		C1312	FV41HJ-	Z Z	10MF 5% 5	
ш с	10R	200MF 20% 25		C1313		ILM CAPACITO	.10MF 5% 50V	
07 E	TOR	20% 250		C1315	QFLC1HJ-1042M	1	. 10MF 5% 50V	
ш	TOR	70MF 20%		C1317			2 %	
ш	TOR	.7MF 20%		C1318	QETC1EM		~	
4-337ZN E.CAPACITUR	108	330MF 20% 10V		C1319		E.CAPACITOR	%	
<u> </u>	TOR	SOMF 20%	Hilding, saleh, saleh Hilding Hilding saleh saleh den versen sersen series versen versen den de sa	C1320	QET41HM-105	E.CAPACITOR	%	
	TOR	20MF 2	_	C1366		C CAPACITOR	. 35MF 20% 50V	
ш	TOR	00MF 20%		01000	OFP32A	DD TAPACTION	4.0FF 10% 50V	
w	TOR	OMF 20		C1452	9	CAPACITOR	100PF 10% 50V	
QET41CM-107 E.CAPACI	TOR	DOMF 2		C1453	QCS11HJ-561			
LL.	TOR	$\bar{\sim}$		C1454	C1-PARTS838594		5%	
QETC1AM-3372N   E.CAPACI	TOR	30MF 2		C1455	QFLC1HJ-2232M		, N	
	TOR	00MF 20%		51456	QFLC1HJ-3932M		.039MF 5% 50V	•
-	TOR	F 20% 25V		C1457	QET41EM-106		2 %	
	TOR	010MF 20%		C1501	QCY31HK-2222	C.CAPACITOR	2200PF 10% 50V	
	OR.	150PF 10% 50V		C1601	QCF11HP-223	C.CAPACITOR	+100	
	ACTION	C X C IMO		C1602	QCY31HK-2222	C.CAPACITOR	10%	
	× c			C2101		C.CAPACITOR		***
_	- a			C2102	QCBB1HK-151Y	C.CAPACITOR	80	
	2 0	THE PERSON NAMED OF THE PE		C2103	QCBB1HK-151Y	C.CAPACITOR	10%	The same of the sa
VMC0238-005Z CONNECTOR				CZ104	0FT41HJ-125	M.CAPACITUR	220ME 26% 50V	
_	~			72108	0FT41HM-475	E CAPACITOR	% C C	-
_	····			02102	GCBB1HK-471Y	C.CAPACITOR	200	
_	~			C2108	QCBB1HK-151Y	CCAPACITOR	10%	
	2	an sprach de production de la company de	and the same and t	62151		M CAPACITOR	2 2	THE PERSON NAMED OF THE PERSON NAMED AND PARTY OF THE PERSON NAMED
				C2152		C.CAPACITOR		
	TOR	0 P F		C2153	QCBB1HK-151Y	C.CAPACITOR	80	
	108	50PF 10%		C2154	QFN41HJ-123	M.CAPACITOR	%	
	***************************************	۲İ.		C2155	QET41AM-227	E.CAPACITOR		-
GERGETHU-123 G.CAFACILUR		IZMF 5%		C2156	QET41HM-475	E.CAPACITOR	4.7MF 20% 50V	A MANA WAS THE PROPERTY OF THE PROPERTY AND THE PROPERTY OF TH
		2 0		C2255	QCS11HJ-471	C.CAPACITOR	Ж.	
>				02256	QCS52HJ-151ZV	C.CAPACITOR	χ.	
		10%		C2201	GE141HM-4/5	E.CAPACITOR	20%	
	T	2%		20020	GE 14 IMM - 100	T CARACITOR	. UMF 20%	
317		330PF 10% 50V		(2303	0 E T / 1 II M - / 7 S	E CAPACITOR	4 . / RF 70% 50V	
		10%		20,40	_	F CAPACITOR	9 6	
	TOR	.012MF 5% 50V		C2308	_	NP.E.CAPACITOR		
	TOR	20MF 20%		C2309	_	M.CAPACITOR		
ш¢	10R	.7MF 20%		C2310		M.CAPACITOR	26	
ر د	201	*C 1107		C2311	QFN41HJ-222	.CAPACITOR	 	
ט כ	201	20FF 5.4		C2312	Ø	Z L	ν %	
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75 E	TOR	7MF 20%		5157	7 7	M.CAPACIIOR	2 % 2	
- N	TOR	.7MF 20%		(2310	QEICIMM-2257N	E CAPACITOR	7.2MF 20% 50V	
7. m	TOR	.7MF 2		u v	ETC1EM	E.CAPACITOR	~	
NP.E.CAP	ACITOR	80			TT/4 IIM 40E			
				V. (2)	COT - ULT + - U.S	L.CAPACITOR	1.0MF 20% 50V	_

⚠Parts are safety assurance parts.
When replacing those parts,
make sure to use the specified one.
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€	¥	LAKIS	TAKIS NAME	REMARKS	SUFFIX
	Φ	QCBB1HK-	C.CAPACITOR	680PF 10% 50V	
	Ω	QFN41HJ-102	œ	1000PF 5% 50V	
	α	QFV71HJ-394	FILM CAPACITOR	.39MF 5% 50V	
_	C8805	QETC1HM-104Z	E.CAPACITOR	10MF 20% 50V	
1	$\infty$	QCF11HP-10	C.CAPACITOR	.010MF +100:-0%	THE RESERVE AND ADDRESS OF THE PARTY OF THE
	χ	QCE11HP-10	C.CAPACITOR	+100:-	
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When replacing those parts,
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⚠ Parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

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	PARTS NAME	ARBON RESISTOR 1	ARBON RESISTOR 2	ARBON RESISTOR 3	ARBON RESISTOR 1	ARBON RESISTOR 2	ARBON RESISION S	ARBON RESISTOR 1	ADBON RESISTOR I	ANDRON RESISTOR 4	APRON NESTSTOR 1	ARRON RESISTOR 1	APRON PECTOTOP 1	ARBON RESISTOR 5	ARBON RESISTOR 1	ARBON RESISTOR 2	ARBON RESISTOR 2	ARBON RESISTOR 1	ARBON RESISTOR 2	ARBON RESISTOR 1	ARBON RESISTOR 1	ARBON RESISTOR 2	ARBON RESISTOR 2	ARBON RESISTOR 2	ARBON RESISTOR 2	ARBON RESISTOR 3	ARBON RESISTOR 2	ARBON RESISTOR 8	ARBON RESISTOR 2	ARBON RESISTOR 1	ARBON RESISTOR 3	ARBON RESISTOR S	ARBON RESISTOR 1	ARBON RESISTOR 5	ARBON RESISTOR 1	ARBON RESISION 8	ARBON RESISTOR A	ARBON RESISTOR 2	ARBON RESISTOR 3	ARBON RESISTOR 2	ARBON RESISTOR 1	ARBON RESISTOR 1	0 K	ARBON RESISTOR 2	ARBON RESISTOR 7	ARBON RESISTOR 6	000000000000000000000000000000000000000	CARBON RESISTOR 62
	PARTS NO.	RD161J-10	D161J-2	RD161J-333	RD14CJ-10	RD161J-22	KU161J-56	1617-10	PD1411-17	01613447	PD1411-15	RD161.1-12	1411-10	RD167J-56	RD161J-18	RD161J-22	RD161J-22	61J-10	KU161J-22 PD1411-22	RD1611-10	1611-10	1611-22	1611-22	161J-22	1611-22	9 14	1611-27	1611-82	1611-24	RD161J-18	R0161J-39	QR0161J-825	RD161J-12	RD161J-56	61J-12	KU1613-82	RD161.1-67	RD161J-22	RD161J-33	RD161J-27	RD161J-12	61J-10	rœ	1611-27	RD161J-75	RD1613-62		QRD161J-623
	A REE.	232	<b>*</b> ·	R245	245	250	2 0	2000	2 5	77.0	240	260	240	260	260	810	810	10	010	21.5	15	830	30	30	30	R8505	30	30	30	831	832	K8322	832	832	32	222	832	833	33	833	833	855	R8342	834	834	3,4		854

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	PARTS NO.	D161J-47	01611-15	01010-47	D161J-10	D161J-27	101613-33	1014CJ-10	10161J-22	(D161J-56	(D1617-10	01613-47	10161J-22	N161J-15	01613-12	(U161J-10 (U167J-54	01611-18	ND161J-10	3D161J-47	101611-27	101611-24	2D161J-43	ND161J-15	3016/J-53	(U161J-4/	301613-82	30167J-33	3D161J-47	3D161J-27	20167J-68	201613-47	3D161J-27	201611-82	(U16/3-55	RD161J-33	RD161J-33	RD161J-82	RD161J-30	KU161J-4/	2010101	RD161.1-15	RD161J-10	RD161J-47	RD161J-56	<b>-</b>	RD1613-47	RD1613-1-	RD161J-10
		316	317	270	320	451	452	1453	1501	2051	200	505	1506	1601	2091	7007	1605	2101	2102	2104	2105	2106	2107	2108	2107	2111	2114	2152	2154	2155	2150	2160	2161	2164	2301	2302	2303	2304	2305	2300	2308	2309	2310	2313	R2315	2316	2318	2319

make sure to use the specified one. AParts are safety assurance parts. When replacing those parts,

SUFFIX

REMARKS

PARTS NAME

CARBON RESISTOR 150 5% 1/6W
CARBON RESISTOR 68K 5% 1/6W
CARBON RESISTOR 68K 5% 1/6W
CARBON RESISTOR 68K 5% 1/6W
CARBON RESISTOR 5% 1/6W
CARBON RESISTOR 10K 5% 1/6W

F901, F902 F901, F902 F901, F902 F901, F902

BLOCK NO. [01]]]][]

REF. PARTS NO.		R8710 WR0161J=151   D8801 OB6141=483	1,7,000		R8806 QRD161J-103		R8901 0RD161J-103	R8902 0R0161J-103	R8903 GRD161J-103	R8904 QRD161J-103	R8905   QRD161J-103	R8906 GR0161J=103	R8908 080141-103	VR111 QVPA601-104A			R216	Z 702 VMA4633-001	7 851	200	206 7	Z 904 VMZ0087	THE PROPERTY OF THE PROPERTY O														-						Annual desiration of the contract of the contr			
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SNAME	RESI	RESISTOR	RESISTOR	DESTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	PESISION	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISION	SISION	ESISTOR	ESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR PECICION	RESISTOR	RESISTOR	RESISTOR		RESI	RESI	RESI	RESI	RESISTOR	RESI	RESI	N RESISTOR	
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PARTS NO.	1	QRD161J-475	GKUIOI ODD444		QRD161J-39		QRD161J-913	0RD161J-224	0RD161J-433	QRD1611-563		QRD161J-62	QKD161J-104	ORD161.1-62	0RD161J-433			ORD161J-333	QRD161J	QRZ0077-100X			OR0161J-102	QRD161J-471		QRU14CJ~6K85X	QRD161J-82		QRD161J-103		QRD161J-22		0KD161J-10		QRD161J-10		08017-180					QR0161J-103	i		GRD161J-101	
REP.	R8354	R8555	00000	18361 18361	R8363	R8364	R8365	R8371	R8372	R8373	R8374	R8375	78576 08381	R8382	R8383	R8384	R8385	R8386	R8481	K8482	70407	R8483	R8484	R8485	R8486	1849 19849	R8493	R8503	R8504	R8511	R8512	R8513	R8521	R8523	R8524	R8525	78770	R8528	R8529	R8530	R8701	R8702	R8704	R8705	R8706	

## ■ Power Supply Board (U/UT only)

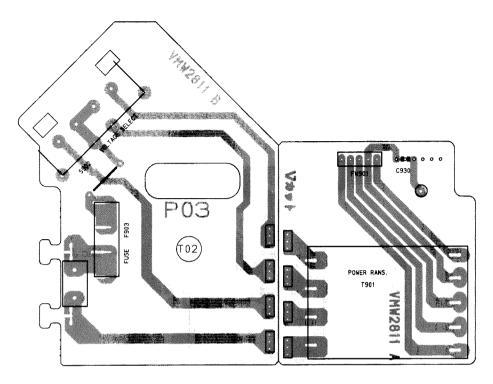


Fig. 7 – 2

#### ● Power Supply Board Parts List

_				BLOCK NO.	0 3
W	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
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A A	Z 905	QSS2325-112 VMZ0043-001S VMZ0043-001S	SLIDE SWITCH FUSE CLAMP FUSE CLAMP	FOR F903 FOR F903	

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#### ■ Sub Board

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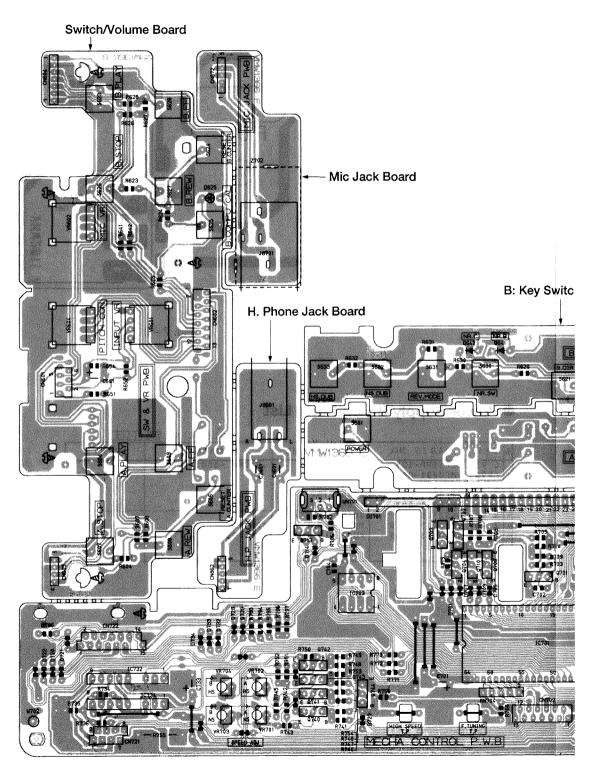
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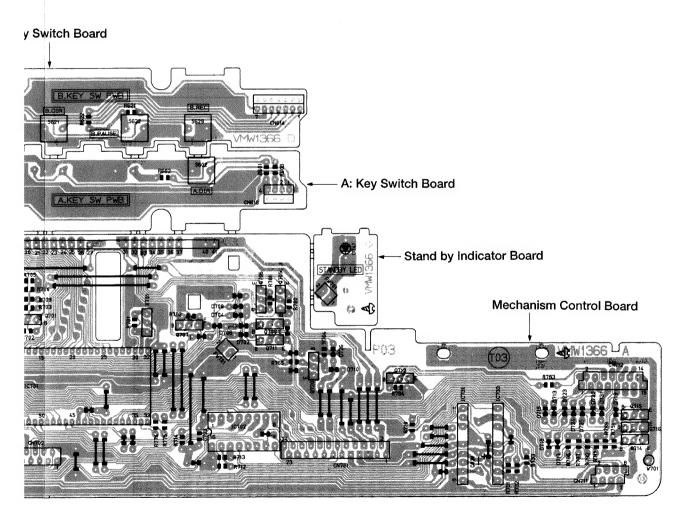


Fig. 7 - 3

Sub Board Parts List

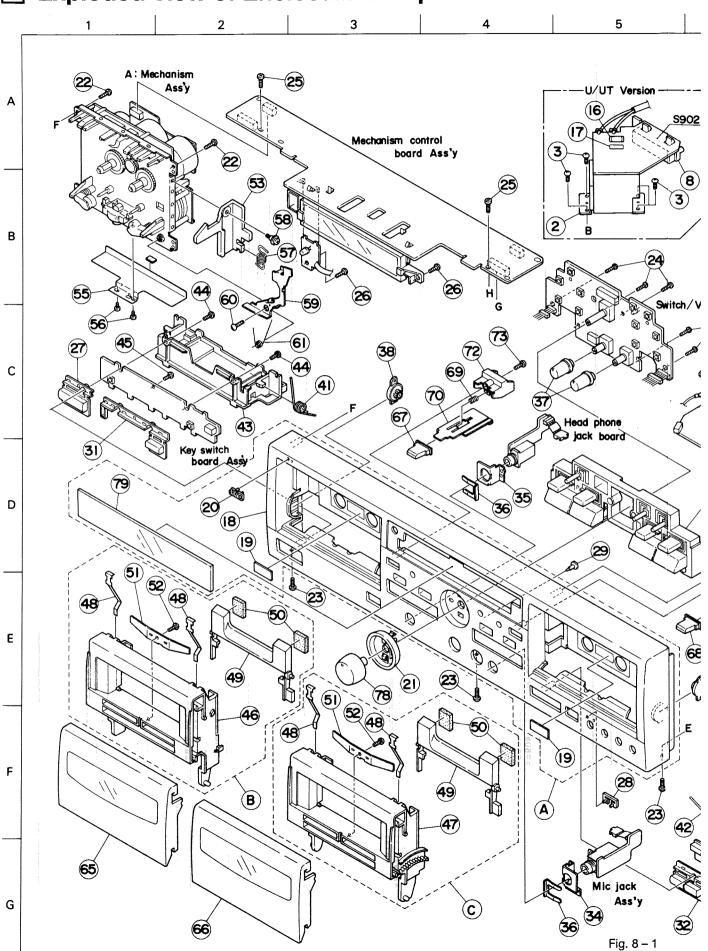
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A REF.	C 601	C 701	202	707	200	1000	733	N V	700	CNOON	CNONS	CN604	CN613	CN614	CN701	CN702	CN711	CN712	CN721	CN722	0 625	D 641	0 642	D 701	0 702	0 703	D 704	D 705	0 706	707	210	7 7 7	0 714	D 715	0 717	0 718	D 719	0 2 2 0	D 721	D 722	D 723	0 724	7.25	0 726	D 727	D 728	D 729	D 730	D 731	D 732	D 733	D 734	D 741	01701

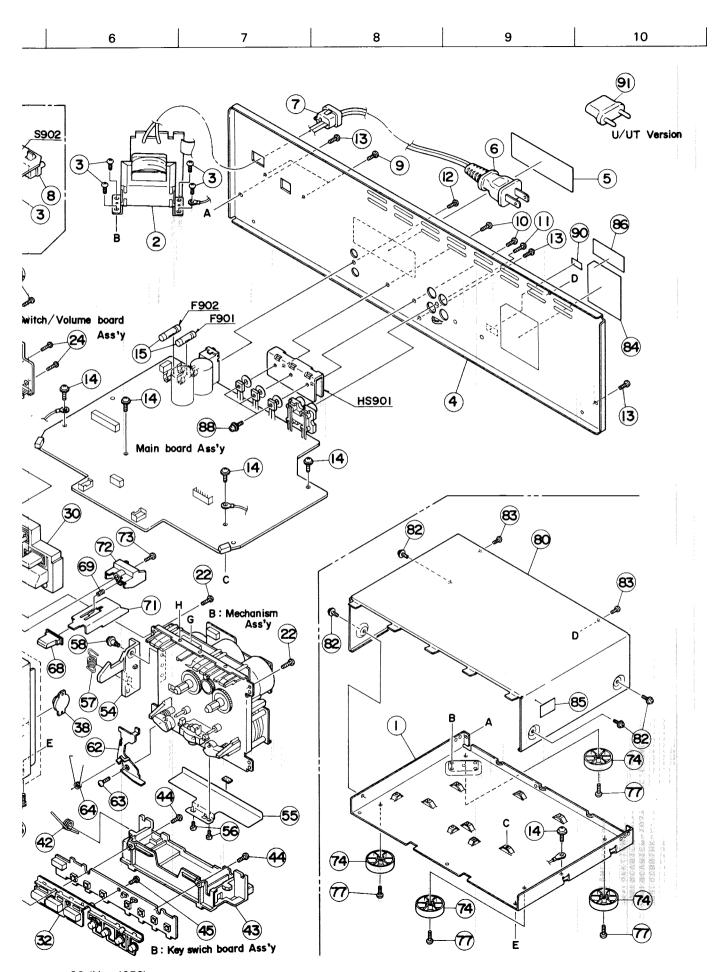
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# **8** Exploded View of Enclosure Component Parts





36 (No. 4356)

## ● Enclosure Component Parts List

⚠Parts are safety assurance parts.

When replacing those parts,
make sure to use the specified one.

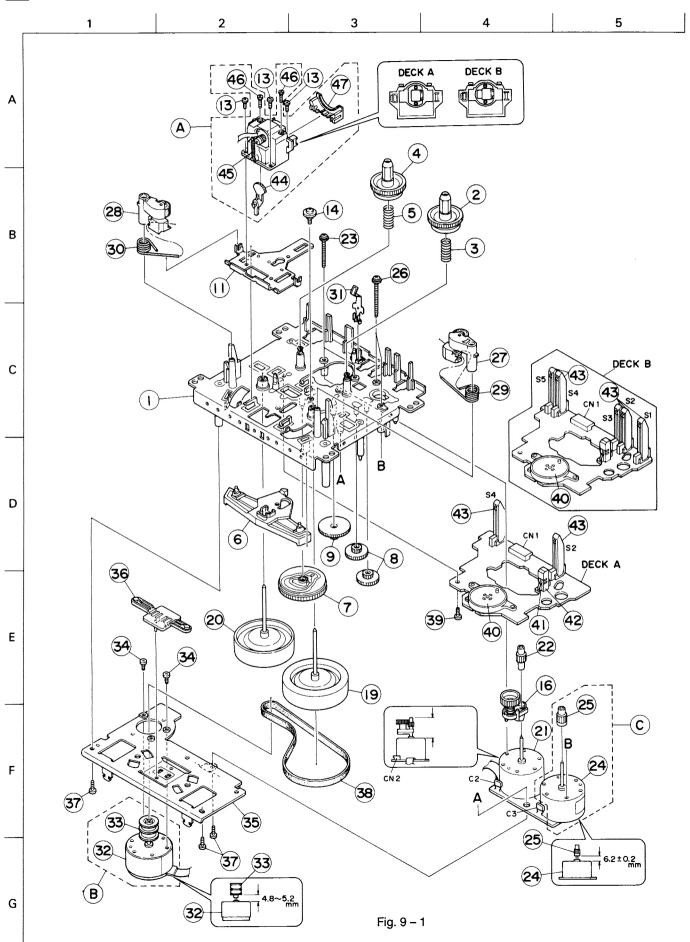
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Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	Α	ZCTDW317J-FTN	FRONT PANELASSY	NO. 18-20,79	1		TN
		ZCTDW318K-FB	FRONT PANELASSY	NO. 18-20,79	1		ВК
	В	ZCTDW317K-CH-A	CASSETTE HOLDER	NO. 46,48-52	1		
	C	ZCTDW317K-CH-B	CASSETTE HOLDER	NO. 47-52	1		
	1	VKL1333-009	CHASSIS BASE		1		
$\triangle$	2	VTP52Z5-011F	POWER TRANS.		1	A,E,EN,G,B	1
Δ		VTP52A5-011F	POWER TRANS.		1	C,J	
$\nabla$		VTP52G5-011F	POWER TRANS.		1	UzUT	
	3		SCREW	FOR POWER TRANS	4		
Ш	4	VJC2410-053	REAR PANEL		1	A,B,E,EN,G	ВК
		VJC2410-054	REAR PANEL		1	U,UT	BK
		VJC2410-051	REAR PANEL		1	J,C	TN
	5	VND4999-001	FCC LABEL (3)		1	J	
	6	QMP2560-244	POWER CORD		1	Α	
$\triangle$		QMP5530-008BS	POWER CORD		1	В	
		QMP1340-200	POWER CORD		1	C.J	T
Δ		QMP3900-200	POWER CORD		1	E, EN, G	
		QMP7380-200	POWER CORD		1	UZUT	
	7	QHS3771-108	CORD STOPPER		1		
	8	VKS5011-001	VOLTAGE CONTACT		1	UZUT	
П	9	SBSF3008M	SCREW	FOR V.SELECTOR	2	U,UT	1
	10	SBSF3008M	SCREW	FOR HEAT SINK	2		
	11	SBSF3008M	SCREW	FOR PIN JACK	1		
	12	SBSF3008M	SCREW	FOR DCS JACK	1		
	13	SBST3006M	SCREW	FOR REAR+CHASSI	3		
П	14	GBST3006Z	SCREW	FOR MAIN P.C.BO	5		
	15	QMF51E2-R80SBS	FUSE	F901,F902	1	A, E, EN, G, U,	U
Δ		QMF51E2-R80SBS	FUSE	F901,F902	1	В	
$\Delta$	16	QMF51A2-R315	FUSE	F903	1	U,UT	
	17	VND4003-074	FUSE LABEL		1	U,UT	
П	18	VJG1320-007	FRONT PANEL		1	A,B,E,EN	ВК
		VJG1320-007	FRONT PANEL		1	G,U,UT	ВК
		VJG1320-006UL	FRONT PANEL		1	C,J	TN
	19	VJD4024-002	REFLECTION PLAT		2		
	20	VJD5429-001	JVC MARK		1		
П	21	VYH7943-002	RING		1	2-10-1-11-11-1	ВК
		VYH7943-001	RING		1		TN
	22	SBSF3010Z	SCREW	FOR MECHANISM	4		
	23	SBST3006M	SCREW	FOR FRONT PANEL	3		
		SBSF2610Z	SCREW	SWITCH/VOLUME B	5		
П	25	SDST2604Z	SCREW	FOR FL.PWB+MECH	2		
	26	SBSF2610Z	SCREW	FOR FL HOL+F.P.	2		
	27	VXP5288-002	PUSH BUTTON	POWER	1		ВК
		VXP5288-001	PUSH BUTTON	POWER	1		TN
	28	VJK4436-001	LENS		1		
$\sqcap$	29	VJK4437-001	LENS		1		
	30	VXP2098-004	MECHA BUTTON	A,B PLAY/STOP	1		вк
		VXP2098-003	MECHA BUTTON	A,B PLAY/STOP	1		TN
	31	VXP3688-004	MECHA BUTTON	A DIRECTION	1		ВК
		VXP3688-003	MECHA BUTTON	A DIRECTION	1		TN
	32	VXP3689-002	MECHA BUTTON	B REC/PAUSE/DOL	1		ВК
		VXP3689-001	MECHA BUTTON	B REC/PAUSE/DOL	1		TN
	34	VKL7265-003	JACK BRACKET	FOR H.P.JACK	1		
		VKL7264-003	MIC BRACKET	FPR P.H. JACK	1		
	1	VKL6752-001	SNAP PLATE		2		

BLOCK	NO.	M1MM	

,,			<del></del>	BLOCK NO. MARIN	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,		<del></del>
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	37	VXL4424-002	KNOB	BALANC/H.PHONE/	2		BK
		VXL4424-001	KNOB	P.CNT/MIX LEVEL	1		TN
	38		DUMPER ASS'Y		2		
		VKW3006-236	TORSION SPRING	A-HOLDER	1		
			1		1 1		
H		VKW3006-237	TORSION SPRING	B-HOLDER	1		
	43		MECHA HOLDER	FOR A B MECHA	2		
	44		SCREW	FOR MECHANISM B	4		
	45		SCREW	FOR A B PWB	2		
	46		CASSETTE HOLDER	FOR A-MECHA	1		
		VJT2317-008	CASSETTE HOLDER	FOR B-MECHA	1		
		VKY4180-001	CASSETTE SPRING		4		
	49		C.STABILIZER		2		
		VYTS491-001	PAD	***************************************	4		
	51	VKY4635-002	SPRING PLATE		2		
0.00	52	SBSF2608Z	SCREW	FOR S.PLATE	2		
	53	VYH7941-003	LOCK LEVER(L)	FOR A MECHA	1		
	54	VYH7941-004	LOCK LEVER(R)	FOR B MECHA	1		
	55	VMA4643-001	SHIELD	FOR MESHA	2		
	56	SDST2603Z	SCREW	FOR MECHA+SHIEL	4		
		VKW5199-001	TORSHION SPRING	LOCK ARM	2		
H	58		SPECIAL SCREW	FOR LOCK L+MECH	2		-
	59		EJECT SAFTY(R)	EGC	1		
	60		SCREW	FOR E.SAFTY(R)	1		
	- 1	VKW5069-002	TORSION SPRING	FOR E.SAFTY(R)	1		
	1	VKL7663-001	EJECT SAFTY(L)	EGC	1		1
$\vdash$	63	SBSF3010Z	SCREW	FOR E.SAFTY(L)			
	1	VKW5104-003	TORSION SPRING	FOR E.SAFTY(L)	1		
	1	VXW3104-003 VJT2349-006		FOR A MECHA	1		D.K
	0.5		CASSETTE LID		1		BK
	, ,	VJT2349-005	CASSETTE LID	FOR A MECHA	1		TN
H	00	VJT2349-004	CASSETTE LID	FOR B MECHA	1		BK
	. 7	VJT2349-002	CASSETTE LID	FOR B MECHA	1		TN
	6/	VXP5289-003	PUSH BUTTON	EJECT	1		BK
		VXP5289-001	PUSH BUTTON	EJECT	1		TN
	68	VXP5289-004	PUSH BUTTON		1		BK
Ш		VXP5289-002	PUSH BUTTON		1		TN
	1	VKW3001-077	C.SPRING		2		The state of the s
		VKL7262-002	REMOTE ARM	FOR A-MECHA	1		
	71	VKL7263-002	REMOTE ARM	FOR B-MECHA	1		
	72	VYH7773-001	BUTTON HOLDER	ve and	2		
	73		SCREW	FOR B.H.+F.P.	2		
The state of the s	74	E406379-008SS	FOOT ASS'Y		4		BK
		VJF4039-00E	FOOT ASS'Y		4		TN
	77	SBST3008Z	SCREW	FOR FOOT	4		
	78	VXL3025-002	KNOB	INPUT VOLUME	1		ВК
	1	VXL3025-001	KNOB	INPUT VOLUME	1		TN
$\vdash$	79	VJK3652-002	FINDER LENS		1		BK
		VJK3652-001	FINDER LENS		1		TN
	80	VJC1964-202SX	TOP COVER		1		ВК
		VJC1964-201SX	TOP COVER		1		TN
- Constitution	82	VKZ4614-001	SPECIAL SCREW	ADDRESS OF THE PROPERTY OF THE	4		f IV
+		SBST3006M	SCREW	FOR TOP COVER	2		-
	- 1	VYN2347-M003PA	NAME PLATE	FOR FOR COVER	1 1	۸	
	04				1	A	
		VYN2347-M002PA	NAME PLATE	The second	1 1	B	
	y Constitution of the Cons	VYN2346-M104PA	NAME PLATE	Personal	1	С	
					<u> </u>		<u></u>

Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
Г		VYN2347-M005PA	NAME PLATE		1	E,EN	
		VYN2347-M008PA	NAME PLATE		1	G	
		VYN2346-M006PA	NAME PLATE		1	J	
1		VYN2347-M007PA	NAME PLATE		1	U,UT	
1.	85	VYN2347-901	NAME PLATE	4	1	UT	
Г	86	VND4992-001	ORIGN LABEL		1	UT	
1	88	DPSP3008Z	SCREW	FOR TRANSISTOR	3		
	90	E407097-001	HYATT L.LABEL		1	J	
	91	V04062-001	CONTI.PLUG		1	UT,U	
	HS901	VMH4011-201	HEAT SINK	Q901,Q903,Q909	1		
Δ	S 902	QSS2325-112	SLIDE SWITCH		1	U,UT	
ļ							
				1			

# **9 Exploded View of Mechanism Component Parts**



## ● Mechanism Component Parts List

AParts are safety assurance parts.

When replacing those parts,
make sure to use the specified one.

			BLOCK NO. M2M			
REF.	PARTS NO.	PARTS NAME	REMARKS	ΩТΥ	SUFFIX	CLE
A	VKS3629-00E	HEAD MOUNT ASSY	DECK B	1		
	VKS3626-00E	HEAD MOUNT ASSY	DECK A	1		
В	MSI5B2LW-SA2	DC MOTOR ASS'Y	NO. 32-33	1		
С	MSN5D257A-SA1	DC MOTOR ASS'Y	NO. 24-25	1		
1	VKS1126-00B	CHASSIS B ASS'Y		1		
2	<del></del>	T-UP REEL ASSY		1		
	VKW5043-001	B.T. SPRING		1		
4		REEL		1		
5	1	B.T. SPRING		1		
6	VKS3627-002	PINCH LEVER		1		
7	VKS2224-002	CONTROL CAM		1		
8		ACT GEAR(2)		2		
9		ACT GEAR(3)		1		
		HEAD BASE	PRESS KIT S			
	VKM3632-001	1	PRESS KITS	1		
	SDST2004Z	SCREW		3		
14		SPECIAL SCREW		1		
16		FR ARM ASS'Y		1		
	VKF3195-00A	FLYWHEEL(R)ASS'		1		
20	VKF3197-00A	FLYWHEEL(L)ASS'		1		
21	MMN-6F4RA38	D.C.MOTOR	FOR REEL, MOTOR	1		
22	VKS5432-001	REEL MOT. GEAR	GEAR KIT S	1		
23	VKZ4705-001	SPECIAL SCREW		2		
24	MSN-5D257A	D.C.MOTOR	FOR ACT, MOTOR K	1		
25	VKS5433-001	ACT.MOTOR GEAR	GEAR KIT S	1		
26	VKZ4705-002	SPECIAL SCREW		2		
27	VKP4227-00B	PINCH R.(R) ASY		1		
28		PINCH R.(L) ASY		1		
29	i	P.R. SP.(R)	FOR PINCH (R)	1		
30		P.R. SP.(L)	FOR PINCH (L)	1		+
31	VKY4670-001	CASSETTE SPRING	PRESS KIT S	1 1		
32		D.C.MOTOR	FOR CAP, MOTOR K	1		
	VKR4632-003MM	MOTOR PULLEY	TOR CAPAMOTOR R	1 1		
		SCREW		2		
34			DDECC KIT C			
35		FM. BRACKET	PRESS KIT S	1		
36	1	THRUST PLATE		1		
37	SDSF2608Z	SCREW		3		
38	1	BELT		1		
39		SCREW		1		
40		CAM SW UNIT	S6	1.		
41		HALL IC		1		
42	VKS3630-001MM	IC HOLDER	IC1	1		
43	MXS00220MVL0	CASSETTE SWITCH	\$1,\$2,\$3,\$4,\$5	5		
	MXS00220MVL0	CASSETTE SWITCH	S2,S4,DECK A	2		
44	VKS3614-001	TURN OVER GEAR		1		
	VKW5063-003	HEAD SPRING		1		
	VKZ4629-003	SPECIAL SCREW		2		
	VKS3654-001	HEAD MT. COVER		1		
	QFV41HJ-104ZM	TF.CAPACITOR	.10MF 5% 50V	2		
C 3		TF.CAPACITOR	.10MF 5% 50V	1		_
CN 1		CONNECTOR	CN1	1 1		
	VMC0234-R13	CONNECTOR	CN2	1		
CIV Z	V1100234-100	CONNECTOR	CIVE	1		
		1	1	1 1		

# 10 Packing Illustration and packing parts list

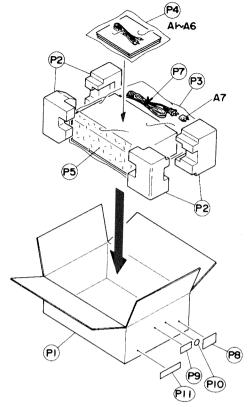


Fig. 10 - 1

#### ● Packing Parts List

_	Pac	King Parts L	151	BLOCK NO. M3M			
	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 3	VPC2347-M002 VPC2346-M002 TDWR803-NZ E300196-031B VPE3005-007 VPK3001-012	CARTON CARTON CUSHION ASS'Y ENVELOPE POLY BAG SHEET	TD-W318 TD-W317  FOR DECK UNIT FOR INSTRUCTION FOR FRONT	1 1 1 1 1 1		
	P 7 P 8 P 9 P 10	Q04141H	WIRE CLAMP SIRIAL TICKET EAN/UPC LABEL MARK GREEN POINT LAB	FOR POWER CORD	1 1 1	E,EN	
H	P 11	VND4909-001	VOLTAGE LABEL		1	G HallT	-

_	-							
-	Δ	^	re.	20	•	$\boldsymbol{\smallfrown}$	65	

•	A	CC	essories		BLOCK NO. M3	MM		
Δ	RE	F.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	1	VMP0039-00D	PIN CORD		1		
	Α	2	VNN2346-271	INSTRUCTIONS	***************************************	1	G, EN	
			VNN2346-661	INSTTACTIONS	THE PROPERTY OF THE PROPERTY O	1	CZEZENZGZU	- 11
			VNN2346-671	INSTRACTIONS		1	A B J	7
L	Α	3	BT-20066A	WARRANTY CARD	A. A	1	В	
			BT-20025M	WARRANTY CARD		1	C	
			BT-20134	WARRANTY CARD		1	G	
			BT-51006-1	WARRANTY CARD		1	.i	
			BT20060	WARRANTY CARD		1	В	
			BT-56001-1	WARRANTY CARD		1	A	
	Α	4	BT-20071B	SVC CENTER LIST		1	C	-
		Ì	BT-56002-1	SERVIS CENTER L		1	Ā	
	Α	5	BT-20044G	SAFETY INST.		1	.1	
			E43486-340A	SAFETY I.SHEET		1	В	
Ш	Α	6	EWP805-001E	REMOTE WIRE		1	5	
	Α	7	V04062-001	CONTI.PLUG		1	U, UT.	+



**VICTOR COMPANY OF JAPAN, LIMITED** AUDIO PRODUCTS DIVISION, MAEBASHI PLANT 10-1, 1-chome, Ohwatari-machi, Maebashi-city, 371, Japan